Finley B. Laverty 170

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

BIENNIAL REPORT
ON
HYDROLOGIC DATA

SEASONS OF 1959-60 AND 1960-61

JULY 1, 1962

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDRAULIC AND WATER CONSERVATION DIVISIONS

REPORT TO M. E. SALSBURY, CHIEF ENGINEER
BIENNIAL REPORT
ON
HYDROLOGIC DATA
SEASONS 1959-60 AND 1960-61

WALTER J. WOOD, ASSISTANT CHIEF DEPUTY ENGINEER

MAXWELL F. BURKE, SUPERVISING CIVIL ENGINEER, HYDRAULIC DIVISION

A. E. BRUINGTON, DIVISION ENGINEER, WATER CONSERVATION DIVISION

JULY 1, 1962

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

P. O. BOX 2418, TERMINAL ANNEX
LOS ANGELES 54, CALIFORNIA
CAPITOL 2-8151

M. E. SALSBURY
CHIEF ENGINEER

2250 ALCAZAR STREET
LOS ANGELES

July 1, 1962

FILE NO. 2-40.04
Biennial Report on Hydrologic Data
Seasons 1959-60 and 1960-61
All Districts

Honorable Board of Supervisors
Los Angeles County Flood Control District
Room 383, Hall of Administration
500 West Temple Street
Los Angeles 12, California

Gentlemen:

There is transmitted herewith for your files, the Los Angeles County Flood Control District's Biennial Report on Hydrologic Data for the Seasons of 1959-60 and 1960-61. This report is the twenty-third of a series of annual or biennial reports which have been published covering thirty-four years of record.

This report assembles data collected and compiled by the District's Hydraulic Division on precipitation, evaporation, runoff and dam operation, and the District's Water Conservation Division on groundwater, and water conservation. These data are basic for hydrologic study, planning, design, and operation of flood control and conservation projects. The value of continuing the collection, compilation, and publication of this type of data is inestimable due to its widespread use by the District, other organizations, and individuals.

The District wishes to record its appreciation of the valuable cooperation rendered by the various individuals and organizations who have furnished data and served as observers.

Yours very truly,

M. E. Salsbury

M. E. Salsbury, Chief Engineer

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

HYDRAULIC AND WATER CONSERVATION DIVISIONS

July 1, 1962

File No. 2-40.04
Biennial Report on Hydrologic Data
Seasons 1959-60 and 1960-61

Mr. M. E. Salsbury, Chief Engineer
Los Angeles County Flood Control District
2250 Alcazar Street
Los Angeles 33, California

Dear Mr. Salsbury:

Transmitted herewith is the ''Biennial Report on Hydrologic Data'' for the Seasons 1959-60 and 1960-61. This report includes data collected and compiled by the Hydraulic and Water Conservation Divisions of the District, which are presented as follows:

1. Precipitation
2. Evaporation
3. Runoff
4. Dam Operation
5. Debris Dams and Debris Basins
6. Ground Water and Water Conservation

Precipitation records include the daily record of 531 stations during the 1959-60 and 530 during the 1960-61 seasons, of which 97 per cent and 95 per cent, respectively, furnished complete seasonal records.

Seasonal rainfall distribution throughout the County is shown by the following relation to the 85-year normal indices for four subareas of the County and for the County area:

Area	Per Cent of Area	Per Cent of Normal Rainfall 1959-60	1960-61
San Gabriel Mountains	18.9	59	36
Valley and Coastal Plain	29.7	47	40
Santa Monica Mountains	5.7	66	39
Sierra Pelona and Desert	45.7	56	45
County	100.0	56	41

Evaporation records were received each month from 30 and 29 stations respectively, during 1959-60 and 1960-61 seasons. Maximum evaporation occurred at Palmdale, in the Antelope Valley, for 1959-60 and 1960-61 seasons. Evaporation amounted to 114.69 and 107.11 inches for each season, respectively. Minimum seasonal evaporation of 44.08 inches occurred at Puddingstone Reservoir, near San Dimas, for 1959-60 and 41.39 inches at La Fresa near Torrance for 1960-61.

Runoff records presented include stream flow measurements, mean daily runoff, and storm hydrographs compiled from the District's water stage recorders.

During 1959-60 and 1960-61, the District operated 104 recording stream flow stations located on main streams and tributary channels. Twenty-eight of these stations are in the Los Angeles River drainage area, 30 are in the San Gabriel River drainage area, 24 are located in the Rio Hondo drainage area, and 25 are located in the remaining important drainage areas. Records obtained from these stations are supplemented by 11 stations operated by the United States Geological Survey in cooperation with the Los Angeles District, Corps of Engineers, one station operated by Ventura County Water Resources Division, one operated by the District in cooperation with the San Bernardino County Flood Control District, two operated by the Metropolitan Water District, and one operated by the San Gabriel Spreading Corporation. These are also included in this publication. Cooperative assistance was given by the District in making measurements at these stations while the District, in turn, received cooperation at one District station from the Corps of Engineers.

The deficient rainfall of these two seasons produced below average runoff in all of the streams in the District. Peak flows were minor in all areas and in the mountains, practically non-existent. Ocean waste, including industrial waste, in 1959-60 was 70 per cent of its 12-year average and in 1960-61 was only 43 per cent.

Dam operation data included in this report show daily reservoir water surface elevation, storage, and amount of inflow and outflow for 14 dams operated by the District. These dams control 409 square miles of mountain drainage with a total controlled storage of 88,295 acre-feet at spillway lip elevation.

Two tabulations giving pertinent data for the seasons for 11 debris dams and 45 debris basins, owned and operated by the District, are included in this report.

Reclamation and enlargement of storage capacity in District reservoirs and debris basins during these seasons, obtained by excavation operations, amounted to 274,841 cubic yards in 1959-60 and 993,986 cubic yards in 1960-61.

Conservation by means of reservoir and channel absorption amounted to 67,040 acre-feet in 1959-60 and 97,160 acre-feet in 1960-61. Off-channel spreading grounds and recharge facilities made it possible to conserve an additional 54,358 acre-feet during 1959-60 and 76,594 acre-feet in 1960-61. These figures include 236,234 acre-feet of water purchased under the Zone I and Zone II programs and by the Central and West Basin Water Replenishment District.

The Water Replenishment District was created in November, 1959 to provide funds for the purchase of imported and reclaimed waters to replenish the ground water basins within its boundaries. During the second year of the period covered by this report, the Water Replenishment District provided funds for the purchase of 69,285 acre-feet of imported water which were conserved in District spreading and barrier project facilities.

During the 1959-60 season, 80,926 acre-feet of imported water were spread in Zone I, and in 1960-61, 80,807 acre-feet were spread. With funds available from the Water Replenishment District, an additional 66,374 acre-feet of imported water were spread during the 1960-61 season. The total amount of imported water spread during the two-year period covered by this report amounted to 228,107 acre-feet.

With a 1,000-foot extension to the recharge facilities of the West Coast Basin Barrier Project, 8,127 acre-feet of imported water were delivered and were injected through twelve recharge wells with a combined injection rate of approximately 7 cfs. Included in the above amount are 2,911 acre-feet of imported water purchased by the Central and West Basin Water Replenishment District.

Over 133 exploratory wells were drilled in the Central and West Coast Basin to determine the location, extent and continuity of water-bearing zones and the extent of accompanying saline intrusion. An additional 19 wells were drilled at other locations of the County for geological and water level information.

Ground water maps compiled from well measurements and a brief discussion of the trend of levels in ground water basins are included in this report.

Subnormal rainfall during the 1959-60 and 1960-61 seasons coupled with increased extractions from the ground water basins in the County has resulted in historical low ground water elevations throughout the County. The effect of the present drought is quite apparent in the San Gabriel Valley where an average annual lowering in the Main Basin has approximated 10 feet compared to an average annual lowering of 5 feet for the years 1953-1957. Of particular interest is the Coastal Plain where differentials in water levels or pressure gradients have become so accentuated as to require segregation of aquifers on the basis of shallow and deep aquifers.

Responsibility for collection and compilation of the hydrologic data included in this report was under Mr. Walter J. Wood, Division Engineer, Hydraulic, and the data on water conservation was under Mr. A. E. Bruington, Division Engineer, Water Conservation. General direction of the activities of the above two Divisions of the Dams and Conservation Branch was the responsibility of Mr. F. B. Laverty, Assistant Chief Engineer who retired from District Service on January 10, 1962.

Respectfully submitted,

Maxwell F. Burke

Maxwell F. Burke, Supervising Civil Engineer
Hydraulic Division

A E Bruington

A. E. Bruington, Division Engineer
Water Conservation Division

Recommended

Walter J. Wood

Walter J. Wood
Assistant Chief Deputy Engineer

TABLE OF CONTENTS

SECTION I: PRECIPITATION

		PAGE
FOREWORD		1
DISTRIBUTION OF RAIN GAGES		2
USES OF PRECIPITATION DATA		2
SOURCES AND NUMBER OF RECORDS		3
Rain Gage Ownership and Type		3
Complete Seasonal Reports		3
AVERAGE RAINFALL INDICES FOR LOS ANGELES COUNTY		4
COMPARATIVE RAINFALL		4
Comparison of Rainfall by Stations		5
MAXIMUM AND MINIMUM RAINFALL		5
SUMMARY OF SNOWFALL		6
COOPERATION OF RAINFALL OBSERVERS		7
TABLES AND MAPS		
Table I	ACTIVE AUTOMATIC RAIN GAGES	8
Table II	COMPARATIVE MAXIMUM RAINFALL DEPTHS IN INCHES	11
Table III	DAILY RAINFALL FOR SELECTED STATIONS, SEASON 1959-60	12
Table IV	DAILY RAINFALL FOR SELECTED STATIONS, SEASON 1960-61	15
Table V	SEASONAL 1959-60 MONTHLY RAINFALL SUMMARY	18
Table VI	SEASONAL 1960-61 MONTHLY RAINFALL SUMMARY	23
Table VII	RAIN GAGE STATION LOCATION, SEASON 1959-60	28
Table VIII	RAIN GAGE STATION LOCATION, SEASON 1960-61	34
Table IX	89-YEAR SEASONAL RAINFALL INDICES	35
Map I	LOCATION OF ACTIVE RAIN GAGES AND ISOHYETAL MAP SEASON OF 1959-60	37
Map II	LOCATION OF ACTIVE RAIN GAGES AND ISOHYETAL MAP SEASON OF 1960-61	39

SECTION II: EVAPORATION

FOREWORD		41
SUMMARY OF SEASONAL EVAPORATION		41
LOCATION AND NUMBER OF STATIONS		41
LENGTH OF RECORD		42
EQUIPMENT		42
RESPONSIBILITY		42
Table X	EVAPORATION RECORDS IN INCHES, SEASONS 1959-60 AND 1960-61	43
Table XI	AVERAGE EQUIVALENT LAKE EVAPORATION, 30 YEARS 1929 to 1959	44
Map III	AVERAGE SEASONAL EVAPORATION, 30 YEARS, 1929 to 1959	45

SECTION III: RUNOFF

	PAGE
FOREWORD	47
SUMMARY	47
EXTENT OF METHOD OF COLLECTING AND PRESENTING DATA	48
I Drainage Areas and Stations	48
II Types of Controls	48
III Types of Recorders Used	48
IV Records of Recording Streamflow Stations	48
(1) Station Descriptions	48
(2) Mean Daily Runoff Tabulations	49
(3) Hydrographs	49
V Records Provided by Other Agencies	49
VI Staff Gage Station Measurements	49
VII Miscellaneous Station Measurements	49
VIII Percolation Data	49
IX Limitation	49
RESPONSIBILITY	50
LEGEND	51
ACCURACY	52
Map IV GAGING STATION LOCATIONS	53

GAGING STATION RECORDS

Recorder Station Records (Arranged Alphabetically)

F.C. NO.	STATION	LOCATION	PAGE
F81-R	ALHAMBRA WASH	Near Klingerman Street	55
M340-R	ALHAMBRA WASH - M.W.D. OUTLET	Near Rush Street	57
F152-R	ALISO WASH	below Nordhoff Street	57
F317-R	ARCADIA WASH	below Grand Avenue	59
U1-R	ARROYO SECO	above Mouth of Canyon	61
P277-R	ARROYO SECO	below Devil's Gate Dam	63
F298-R	BALLONA CREEK	at Curson Avenue	64
F38B-R	BALLONA CREEK	at Sawtelle Boulevard	66
F282-R	BALLONA CREEK	at Pacific Avenue	68
F120B-R	BIG DALTON CREEK	below Big Dalton Dam	69
U9-R	BIG DALTON CREEK	near Mouth of Canyon	70
F202-R	BIG DALTON CREEK	at Sierra Madre Avenue	72
F274B-R	DALTON WASH	at Merced Avenue	73
U14-R	BIG ROCK CREEK	above Mouth of Canyon	75
F111C-R	BIG TUJUNGA CREEK	below Mill Creek	76
F168-R	BIG TUJUNGA CREEK	below Big Tujunga Dam	78
F213-R	BIG TUJUNGA CREEK	above Gold Canyon	80
E20C-R	TUJUNGA WASH	above Glen Oaks Boulevard	82
F105B-R	TUJUNGA WASH	below Moorpark Street	83
F329-R	BRADBURY CHANNEL	below Central Avenue	85
F108-R	CASTAIC CREEK	at Highway 126	87
F302-R	COMPTON CREEK	at 120th Street	88
F37B-R	COMPTON CREEK	near Greenleaf Drive	90

GAGING STATION RECORDS (Cont'd.)

F.C. No.	STATION	LOCATION	PAGE
F320-R	COYOTE CREEK	at Centralia Road	92
F265-R	DOMINGUEZ CHANNEL	at Carson Street	94
F210-R	DOMINGUEZ CHANNEL	at Harbor Boulevard	96
F53-R	DUME CREEK	at Pacific Coast Highway	97
U2-R	EATON CREEK	above Mouth of Canyon	98
F271-R	EATON WASH	below Eaton Wash Dam	99
F318-R	EATON WASH	at Loftus Drive	101
F296-R	EVEY CANYON CREEK	at Camp Baldy Road	103
U7-R	FISH CREEK	above Mouth of Canyon	104
U12-R	HAINES CREEK	above Mouth of Canyon	106
F287C-R	LA TUNA CREEK	below Debris Basin	107
F65B-R	LITTLE DALTON CREEK	above Mouth of Canyon	108
L1-R	LITTLE ROCK CREEK	above Little Rock Dam	110
U3-R	LITTLE SANTA ANITA CREEK	above Sierra Madre Dam	112
F19-R	LITTLE TUJUNGA WASH	at Foothill Boulevard	114
F31-R	LIVE OAK CREEK	near Mouth of Canyon	115
F311-R	LIVE OAK WASH	below 7th Street, La Verne	116
E5C-R	LOS ANGELES RIVER	below Sepulveda Dam	117
F299-R	LOS ANGELES RIVER	at Radford Avenue	119
F300-R	LOS ANGELES RIVER	at Tujunga Avenue	119
F266-R	LOS ANGELES RIVER	at Mariposa Street	121
F57C-R	LOS ANGELES RIVER	above Arroyo Seco	123
F34D-R	LOS ANGELES RIVER	below Firestone Boulevard	125
F319-R	LOS ANGELES RIVER	below Belhart Street	127
F279C-R	LOS CERRITOS CHANNEL	at Stearns Street	129
F120-R	MALIBU CREEK	at Crater Camp.	131
F328-R	MINT CANYON CREEK	at Fitch Avenue	133
F330-R	MISSION CREEK	below Legg Lake	135
F83-R	MISSION CREEK	at San Gabriel Boulevard	137
E321-R	MISSION CREEK	below Whittier Narrows Dam	138
F22-R	MONROVIA CREEK	above Sawpit Creek	140
F195B-R	MONROVIA STORM DRAIN	at Peck Road	141
F181-R	MONTEBELLO STORM DRAIN	above Rio Hondo	143
F118B-R	PACOIMA CREEK FLUME	below Pacoima Dam	145
F305-R	PACOIMA DIVERSION	at Branford Street	147
F15-R	PACOIMA WASH	at Van Nuys Boulevard	149
F135-R	PLACERITA CREEK	at Ridge Route Highway	151
F307-R	PUDDINGSTONE DIV. CHANNEL-SAN DIMAS WATER CO. OUTLET	at Juanita Street	153
F40-R	PUDDINGSTONE CREEK	below Puddingstone Dam	153
F192B-R	RIO HONDO	at Lower Azusa Road	155
E326-R	RIO HONDO	below Garvey Avenue	157
F64-R	RIO HONDO	above Mission Bridge	158
F313-R	RIO HONDO BY-PASS CHANNEL	above Whittier Narrows Dam	161
F45B-R	RIO HONDO	above Stewart and Gray Road	163
J6-R	ROGERS CREEK	above Mouth of Canyon	163
F338-R	RUBIO DIVERSION CHANNEL	below Gooseberry Canyon Inlet	164
F82C-R	RUBIO WASH	at Glendon Way	166

GAGING STATION RECORDS (Cont'd.)

F.C. No.	STATION	LOCATION	PAGE
U15-R	SAN ANTONIO CREEK	Below Edison Company Power Plant Diversion	168
F323-R	SAN ANTONIO CREEK	above Stoddard Canyon	170
F332-R	SAN ANTONIO WATER CO. DIV.	near Ontario No. 1 Power House	172
F303-R	SAN DIMAS CREEK	below San Dimas Dam	173
F218-R	SAN DIMAS WASH	below Puddingstone Div. Dam	175
F209-R	SAN GABRIEL RIVER-WEST FORK	below Cogswell Dam	176
P3-R	SAN GABRIEL RIVER-WEST FORK	above Forks	177
P4B-R	SAN GABRIEL RIVER-EAST FORK	above Forks	179
F250-R	SAN GABRIEL-AZUSA CONDUIT	at Weir below San Gabriel Dam	181
F220-R	SAN GABRIEL-AZUSA CONDUIT	at Garcia Canyon	183
U8-R	SAN GABRIEL RIVER	below Morris Dam	184
S100A-R	SAN GABRIEL, AZUSA-DUARTE TUNNEL DIVERSION	at Mouth of Canyon	185
F190-R	SAN GABRIEL RIVER	at Foothill Boulevard	186
E281-R	SAN GABRIEL RIVER	below Santa Fe Dam	188
M335-R	SAN GABRIEL - M.W.D. OUTLET	below San Bernardino Road	189
F261C-R	SAN GABRIEL RIVER	below Valley Boulevard	190
F314-R	SAN GABRIEL BY-PASS CHANNEL	above Whittier Narrows Dam	191
F263B-R	SAN GABRIEL RIVER	at Beverly Boulevard	191
F262-R	SAN GABRIEL RIVER	at Florence Avenue	193
F42-R	SAN GABRIEL RIVER	at Spring Street	195
F312-R	SAN JOSE CHANNEL	above Workman Mill Road	197
F48-R	SAN JOSE CREEK	at Workman Mill Road	199
U4-R	SANTA ANITA CREEK	above Santa Anita Dam	201
F119B-R	SANTA ANITA CREEK	below Santa Anita Dam	203
F260C-R	SANTA ANITA WASH	below Foothill Boulevard	204
F193B-R	SANTA ANITA WASH	at Longden Avenue	206
F93-R	SANTA CLARA RIVER	above Lang R.R. Station	208
F92-R	SANTA CLARA RIVER	at Old Highway Bridge	210
V309-R	SANTA CLARA RIVER	at Blue Cut	212
F280-R	SANTA FE CHANNEL	below Santa Fe Dam	213
F125-R	SANTIAGO CREEK	above Little Rock Creek	214
F278-R	SAWPIT CREEK	below Sawpit Dam	215
U5-R	SAWPIT CREEK	below Monrovia Canyon	217
F194B-R	SAWPIT WASH	below Arrow Highway	218
F301-R	SAWTELLE-WESTWOOD CHANNEL	at Culver Boulevard	220
F67-R	SIERRA MADRE WASH	below Sierra Madre Dam	222
F267B-R	SIERRA MADRE WASH	at Highland Oaks Avenue	224
B324-R	STODDARD CREEK	above San Antonio Creek	226
F43-R	SYCAMORE CANYON CHANNEL	above Solway Street	228
F44B-R	SYCAMORE CANYON CHANNEL	at Adams Square	230
F276-R	THOMPSON CREEK SPREADING GROUNDS INTAKE	at Thompson Creek Dam	232
F32-R	THOMPSON CREEK	below Thompson Creek Dam	232
F54-R	TOPANGA CREEK	above Mouth of Canyon	233
F252-R	VERDUGO CHANNEL	at Estelle Avenue	235
F304-R	WALNUT CREEK	at Puente Avenue	237

GAGING STATION RECORDS (Cont'd)

STAFF GAGE STATIONS (Arranged Alphabetically)

F.C. No.	STATION	LOCATION	PAGE
F58-S	ARROYO SECO	at Avenue 26	239
F87-S	BANTA DITCH	at Head of Pipeline	240
F343-S	BIG DALTON-M.W.D. BLOWOFF	below Sierra Madre Avenue	240
F143-S	BIG ROCK CREEK	above Pallette Creek	241
F171-S	BIG ROCK CREEK	at Valyermo Highway	241
F284-S	BOUQUET CREEK	1.5 miles above Texas Canyon	242
F339-S	BUENA VISTA CHANNEL	above Buena Vista Pit	242
F140-S	CASTAIC CREEK	at Elizabeth Lake Canyon Hwy.	242
F61-S	COLD CREEK	at Crater Camp	242
F348-S	COYOTE CREEK-NORTH FORK	at Imperial Highway	243
F178-S	DEVIL'S PUNCHBOWL CREEK	at Big Rock Creek	243
F141B-S	ELIZABETH LAKE CREEK	above Dry Gulch	243
F39B-S	LOS ANGELES RIVER	at Del Amo Boulevard	243
F112-S	MILL CREEK	above Big Tujunga Creek	243
F122-S	PALLETTE CREEK	at Big Rock Creek	244
F347-S	PUDDINGSTONE CREEK	above Walnut Creek	244
F101-S	SAN DIMAS CREEK	at Toe of San Dimas Dam	244
F289-S	SANDROCK CREEK	at Valyermo Highway	244
F208-S	SAN GABRIEL RIVER	below Morris Dam	245
F100-S	SAN GABRIEL-MAIN SPREADING CANAL	at Mouth of Canyon	245
F306-S	SAN JOSE CREEK	at Nogales Avenue	245
F272-S	SANTA MONICA CREEK	above Rustic Canyon	246
F291-S	VALYERMO RANCH SPRINGS CREEK	at Valyermo Highway	247

RISING WATER AT WHITTIER NARROWS

F86-S	SAN GABRIEL RIVER (Factor "G")	below Standefer Ditch	248

GRAPH OF MEAN MONTHLY FLUCTUATIONS 251

MISCELLANEOUS STATIONS

STATION	LOCATION	PAGE
ANTELOPE VALLEY AREA	at miscellaneous points	252
SANTA CLARA RIVER DRAINAGE AREA	at miscellaneous points	252
SANTA MONICA COASTAL AREA	at miscellaneous points	252
LOS ANGELES RIVER DRAINAGE AREA	at miscellaneous points	253
RIO HONDO DRAINAGE AREA	at miscellaneous points	257
SAN GABRIEL RIVER DRAINAGE AREA	at miscellaneous points	259
SAN ANTONIO CREEK DRAINAGE AREA	at miscellaneous points	264

PERCOLATION DATA

PERCOLATION REACHES PAGE

LOS ANGELES RIVER 268
RIO HONDO 268
MISSION CREEK 269
SAN GABRIEL RIVER 269
NORTH FORK COYOTE CREEK 271
BIG DALTON WASH 272
PUDDINGSTONE CREEK 272
WALNUT WASH 272

SUMMARY OF SEASONAL DISCHARGE 273
TABLE XII RUNOFF WASTE TO OCEAN 275

SECTION IV, DAM OPERATION

DAMS AND RESERVOIRS

FOREWORD 277
FLOOD CONTROL AND CONSERVATION DAMS 277
PURPOSE 277
OPERATION 278
RECORDS 278
RESPONSIBILITY 278

DAM OPERATION RECORDS

PACOIMA 280
BIG TUJUNGA 283
DEVIL'S GATE 286
EATON WASH 289
SANTA ANITA 292
SAWPIT 295
COGSWELL 298
SAN GABRIEL 301
BIG DALTON 304
SAN DIMAS 307
PUDDINGSTONE DIVERSION 310
PUDDINGSTONE 312
LIVE OAK 315
THOMPSON CREEK 317
HAMILTON BOWL 320

TABLE XIII YEARLY RESERVOIR OPERATION 323

SECTION V, DEBRIS DAMS AND DEBRIS BASINS PAGE

FOREWORD 325
PURPOSE 325
NEW FACILITIES 325
RESPONSIBILITY 325
DEBRIS DAMS 326
DEBRIS BASINS 326

SECTION VI GROUND WATER AND CONSERVATION

FOREWORD 329
SPREADING GROUNDS 329
NEW FACILITIES 329
WATER QUALITY 330
IMPORTED WATER 330
MONTEBELLO FOREBAY REPLENISHMENT 331
WEST COAST BASIN BARRIER PROJECT 331
EXPLORATION WELLS AND OBSERVATION WELLS 332
SEASONAL DATA AND MAPS 332
GROUND WATER BASINS 333
SAN FERNANDO VALLEY 333
SAN GABRIEL VALLEY 333
COASTAL PLAIN 333
SANTA CLARA RIVER VALLEY 333
ANTELOPE VALLEY 333
RESPONSIBILITY 334

TABLE XIV RESERVOIR AND CHANNEL ABSORPTION 335
SUMMARY OF DATA ON SPREADING GROUNDS:
TABLE XV DISTRICT OWNED AND OPERATED 336
TABLE XVI SUMMARY OF WATER SPREAD BY DISTRICT 338
TABLE XVII NOT OWNED BY DISTRICT 340
TABLE XVIII SUMMARY OF WATER SPREAD BY OTHERS 341

LOCATION OF GROUND WATER BASINS, KEY WELLS AND SPREADING GROUNDS
MAP V 343

GRAPHS FOR KEY WELLS

SAN FERNANDO BASIN 345
RAYMOND BASIN 347
MAIN SAN GABRIEL BASIN 349
SAN GABRIEL CANYON BASIN 351
UPPER CLAREMONT HEIGHTS 352
POMONA BASIN 353
COASTAL PLAIN INTAKE AREA 354
COASTAL PLAIN FORMER ARTESIAN AREA 356
COASTAL PLAIN 358
SANTA CLARA VALLEY BASIN 359
ANTELOPE VALLEY BASIN 361

SECTION VI GROUNDWATER AND CONSERVATION (Cont'd.) PAGE

GROUND WATER MAPS OF SAN FERNANDO VALLEY
MAPS VI, VII, VIII, AND IX 363

GROUND WATER MAPS OF SAN GABRIEL VALLEY
MAPS X, XI, XII, AND XIII 371

GROUND WATER MAPS OF COASTAL PLAIN
MAPS XIV, XV, XVI, XVII, XVIII, XIX, AND XX 379

GROUND WATER MAPS OF SANTA CLARA VALLEY
MAPS XXI AND XXII 393

GROUND WATER MAPS OF ANTELOPE VALLEY
MAPS XXIII AND XXIV 397

PRECIPITATION RECORDS

PRECIPITATION

FOREWORD

This report contains basic precipitation and other weather records in the District's files for the seasons 1959-60 and 1960-61. It represents the thirty-second and thirty-third of similar seasonal reports in summarized form.

The District's "season" includes the period from October 1 through September 30, which conforms to the water year used by the United States Geological Survey, Water Resources Branch. Daylight saving time in which the clock was advanced one hour for the periods April 24, 1960 to September 25, 1960 and April 30, 1961 to September 24, 1961 was observed. Pacific Standard time was used for the balance of the period.

Normal as used in this report conforms to the definition in the "Manual of Engineering Practice No. 11," pamphlet by the American Society of Civil Engineers, "A mean or average value established from a series of observations, for the purpose of comparison."

SEASON 1959-60

Seasonal precipitation in Los Angeles County, was well below normal in the 1959-60 season with an average of 8.57 inches which was 56 per cent of the 85-year normal for various representative stations.

The seasons of 1951-52 and 1957-58 have been the only two with above normal rainfall since the 1943-44 season.

High intensity rains during the first week of February and the last week of April caused some flooding.

Precipitation of 0.01 inch or more fell on 33 days in the mountains at Opid's Camp (Camp Hi Hill) and on 23 days at Los Angeles-Ducommun Street.

Isohyets for the season are shown on Map I, Page 37.

Average depth measurements made April 1, 2, 4, 1960 on eleven snow courses in and near the County varied from zero to 8.7 inches. Snow depths are shown in Summary of Snowfall, Page 6.

Temperatures at Los Angeles were above normal for the major portion of the season with September being the warmest month.

Winds of damaging proportions were experienced in the County during October, November, December, April, July and August.

SEASON 1960-61

Average seasonal rainfall in the County for 1960-61 was 6.40 inches or 41 per cent of the 85-year normal. This is the third consecutive season of below normal rainfall. Approximately one-half of the season's total rainfall occurred in November.

During August, thunderstorms of short-time duration, producing substantial rainfall amounts were experienced in the San Gabriel Mountains.

Precipitation of 0.01 inch or more fell on 22 days in the mountains at Opid's Camp (Camp Hi Hill) and on 20 days at Los Angeles-Ducommun Street.

Isohyets for the season are shown on Map II, Page 39.

On April 3 and 4, 1961, eleven snow courses were measured with only two courses showing measurable snow depths. Summary of snowfall is shown on Page 6.

The period December through February was warm and dry. Los Angeles experienced its warmest January of record with an average temperature of 62° F.

Abnormal winds blew during October, December, February, March and May. At Burbank, on December 6 and May 12, the highest winds of record for those months, 46 and 31 miles per hour, respectively, occurred.

DISTRIBUTION OF RAIN GAGES

During the 1959-60 season, daily rainfall records were received by the District from a total of 648 gages located at 531 stations in or near the County. Similarly, during the 1960-61 season, records were obtained from a total of 644 gages located at 530 stations.

Station locations are shown on Maps I and II, Pages 37 to 39, and Tables VII and VIII, Pages 28 to 34.

About three fourths of the District owned recording rain and snow gages were located in the mountain and foothill areas with the balance distributed in valley, coastal plain and desert areas.

The following tabulation indicates the number of stations from which the District has received records for 15 years or more:

	15 to 49 Years		50 Years and Over	
	1959-60	1960-61	1959-60	1960-61
Continuous Records - Active	259	249	23 [a]	23 [a]
Broken Records - Active and Inactive	177	191	17	17
Totals	436	440	40	40

[a] In some cases, the station was moved a short distance, or in case of inactivity, another station in the immediate locality has been substituted to give a continuout long-time record.

USES OF PRECIPITATION DATA

The following are some of the major uses of precipitation data gathered by the District.

1. In operation of District dams, debris dams, debris basins, spreading grounds and pumping plants.
2. In water conservation studies.
3. In calculations relating to flood flows for design purposes.
4. In determining rainfall frequency, intensity-duration and mass rainfall curves.
5. In snow pack as related to water content and runoff studies.
6. In court cases.
7. In determining average precipitation within the County.
8. In preparing seasonal, storm and long-time average isohyetal maps.
9. By public and private agencies, for flood control, irrigation and water supply or related investigations.

The District furnishes precipitation and other weather data to many agencies and individuals on request. Weather data is also furnished to the District by these agencies and individuals and forms a large share of the records received and compiled for the period of this report.

SOURCES AND NUMBER OF RECORDS

The tabulation which follows shows under ownership, the type and number of rain gages:

	1959-60	1960-61	1959-60	1960-61
(A) Los Angeles County Flood Control District				
(a) Non-recording				
Standard 8-inch dia. gage	299	294		
Special 8.81-inch dia. gage	24	24		
Storage type 8-inch dia. gage	27	27		
(b) Recording				
Weighing Type 9-inch cap.	31	31		
Weighing Type 12-inch cap.	51	51		
Weighing Type 30-inch cap.	1	1		
Float Type 3-inch cap.	1	1		
Tipping Bucket Type	1	1		
Totals			435	430
(B) Outside Agencies and Individuals				
(a) Non-recording				
Standard 8-inch dia. gage	142	142		
Various diameters	6	6		
(b) Recording				
Various types and capacities	65	66		
Totals			213	214
Total Number of Rain Gages			648	644
Less Stations with both recording and non recording gages			117	114
Total Stations from which the District receives records			531	530
COMPLETE SEASONAL REPORTS				
Flood Control District Stations	342 b/	343 b/		
Privately owned Stations	171	169		
Totals			513	504

b/ When a station has both an automatic recording rain gage and a standard rain gage, and one is a District-owned gage, it is considered a Flood Control District Station in this publication.

The preceding tabulation shows the number of stations which furnished complete rainfall records or those which could be completed by estimates from adjacent stations for not more than ten per cent of the total seasonal amount.

Records in the District's files from additional weather instruments are as follows:

Type	Number
Maximum-minimum thermometers	67
Thermographs	1
Hygro-thermographs	6
Barographs	2
Single register non-recording anemometer	1
Single register recording anemometer	1
Double register non-recording anemometer	1
Double register recording anemometer c/	2

c/ One anemometer is located at San Gabriel River outlet. Wind roses are plotted from this station for the calendar years 1948, 1949, and 1953 to 1960, incl.

AVERAGE RAINFALL INDICES FOR LOS ANGELES COUNTY

TableIX, page 35, presents indices for 89 seasons in the County and seven subareas of the County.

COMPARATIVE RAINFALL

Comparison of Monthly Rainfall

The following table shows normal monthly rainfall amounts in inches and per cent of 85-year normal monthly precipitation for Opid's station in the mountains and the Los Angeles-Ducommun Street station in the valley:

Station Name	Month	Normal Monthly Rainfall	Rainfall 1959-60	Per cent of Normal Monthly Rainfall 1959-60	Rainfall 1960-61	Per cent of Normal Monthly Rainfall 1960-61
Opid's (Camp Hi Hill)	Oct.	1.57	.10	6	.60	38
	Nov.	3.27	.02	1	7.03	215
	Dec.	7.18	2.91	41	.50	7
	Jan.	8.77	6.27	71	3.70	42
	Feb.	9.16	3.27	36	T	0
	March	6.30	1.08	17	1.21	19
	April	2.71	3.25	120	.60	22
	May	.62	T	0	.05	8
	June	.11	0	0	0	0
	July	.07	0	0	T	0
	Aug.	.10	T	0	.26	260
	Sept.	.52	0	0	T	0
Season Totals		40.58	16.90		13.95	
Los Angeles - Ducommun Street	Oct.	.56	0	0	.03	5
	Nov.	1.23	.06	5	2.76	224
	Dec.	2.73	1.16	42	.15	5
	Jan.	3.38	3.49	103	1.50	44
	Feb.	3.19	2.24	70	.18	6
	March	2.56	.59	23	.62	24
	April	1.00	1.80	180	.32	32
	May	.32	.03	9	0	0

Comparison of Monthly Rainfall (Continued)

Station Name	Month	Normal Monthly Rainfall	Rainfall 1959-60	Per cent of Normal Monthly Rainfall 1959-60	Rainfall 1960-61	Per cent of Normal Monthly Rainfall 1960-61
Los Angeles - Ducommun Street	June	.07	0	0	0	0
	July	0	0	0	0	0
	Aug.	.03	0	0	.01	33
	Sept.	.19	0	0	.02	11
Season Totals		15.26	9.37		5.59	

COMPARISON OF SEASONAL RAINFALL BY STATIONS

The following table shows a comparison of seasonal rainfall in inches depth at eleven locations with long-time records in the coastal, valley, foothill, mountain and desert areas in Los Angeles County:

Sta. No.	Station Name	Elev. of Gage	85-Yr. Normal Rainfall	Years Record	Total Rainfall 1959-60	Per cent of Normal Rainfall 1959-60	Total Rainfall 1960-61	Per cent of Normal Rainfall 1960-61
5B	Calabasas	924	16.53	38	10.23	62	6.19	37
32C	Newhall	1243	17.73	85	8.78	50	7.05	40
53D	Colby's	3675	30.13	64	11.68	39	11.24	37
57B-E	Opid's	4250	40.58	44	16.90	42	13.95	34
60A	Hoegee's	2650	41.49	36	17.20	41	13.74	33
224B	Long Beach	180	12.72	67	8.56	67	3.13	25
338A	Mt. Wilson	5650	36.39	57	16.94	47	12.50	34
455B	Lancaster	2395	7.18	38	3.87	54	1.93	27
587B	San Antonio Canyon-P.H. #1	2390	27.55	57	13.89	50	10.57	38
610B	Pasadena	864	20.19	89	9.58	47	7.28	36
716	Los Angeles - Ducommon Street	300	15.26	89	9.37	61	5.59	37

MAXIMUM AND MINIMUM RAINFALL

The following tabulation presents maximum and minimum rainfall amounts in inches depth in Los Angeles County for the period of this report, using standard gage measurements:

Station Number		Minimum Seasonal 1959-60	Minimum Seasonal 1960-61	Maximum Seasonal 1959-60	Maximum Seasonal 1960-61	Maximum Day 1959-60	Maximum Day 1960-61
490	Lancaster-Wiley Ranch	2.33					
X12C	Wilsona		1.26				
402C	Cedar Spring			21.63	17.25		
6	Topanga Patrol Station					4.12	
X29	Pine Mountain						3.82

Table I, Page 8, presents a complete list of automatic recording rain gages which were active during the 1959-60 and 1960-61 seasons, with length of active record.

Table II, Page 11, shows a comparison of maximum precipitation intensity for ten representative stations in the District during the 1959-60 and 1960-61 seasons and the maximum intensity of record.

Table III, Pages 12 to 14, presents daily rainfall amounts for selected stations during the 1959-60 season.

Table IV, Pages 15 to 17, presents daily rainfall amounts for selected stations during the 1960-61 season.

Table V, Pages 18 to 22, presents monthly and seasonal rainfall amounts for stations from which the District received records during the 1959-60 season.

Table VI, Pages 23 to 27, presents monthly and seasonal rainfall amounts for stations from which the District received records during the 1960-61 season.

SUMMARY OF SNOWFALL

The accumulated snowfall depth in inches at three mountain stations follows:

Sta. No.	Station Name	Approx. Elev.	Seasons 1959-60	Seasons 1960-61	Maximum of Record	Season	Length of Record in Years
82D	Table Mountain	7500	70	32	201	1951-52	35
83	Big Pines	6860	55	25	231	1943-44	36
283C	Crystal Lake	5370	23	9	173	1943-44	30

The following tabulation shows snow surveys made at eleven snow courses in April for the San Antonio, Big Rock and Little Rock drainage areas:

Snow Course	Approx. Elev.	Avg. Depth of Snow in Inches 1960	Avg. Depth of Snow in Inches 1961	Water Content in Inches 1960	Water Content in Inches 1961	Density 1/ 1960	Density 1/ 1961
San Antonio Drainage Area							
Icehouse No. 4	5800	0	0	0	0	0	0
Manker Flat	6500	0	0	0	0	0	0
Lower Thunder Mt.	7500	4.8	0	2.3	0	47.9	0
Upper Thunder Mt.	8500	8.7	0	3.1	0	35.6	0
Big Rock Creek Drainage Area							
Blue Ridge	7200	0	0	0	0	0	0
Islip No. 2	7400	0	0	0	0	0	0
Islip No. 3	7600	3.7	0.8	1.2	0.6	32.4	75.0
Islip No. 4	7570	4.1	2.6	1.8	1.9	43.9	73.1
Little Rock Creek Drainage Area							
Sqw Camp	5800	0	0	0	0	0	0
Cedar Springs	6500	0	0	0	0	0	0
Buckhorn	7100	0	0	0	0	0	0

1/ Density = Average water content (inches) x 100 ÷ Average depth (inches).

Note: Data relative to snow survey measurements subsequent to the establishment of the above and other snow courses are in the District's files.

COOPERATION OF RAINFALL STATION OPERATORS

The cooperation of observers in furnishing data for the compilation of a report such as this is essential. That they have continued in this effort is evidenced by the large number of complete reports for the seasons covered in this report.

We wish to express our appreciation to the many agencies and individuals who have so freely cooperated with us in the collection of these data.

TABLE I

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

ACTIVE AUTOMATIC RAIN GAGES

SEASON 1959-1960

FC NO.	NAME OF STATION	ELEV. OF GAGE	TYPE AND CAPACITY		WATERSHED	PERIOD OF RECORD
26	ESCONDIDO CANYON	1050	WEIGHING	12"	LATIGO CANYON	2/2/57 TO DATE
6	TOPANGA CANYON PATROL STATION	747	"	12"	TOPANGA CANYON	8/18/30 TO DATE
10	BEL AIR HOTEL	540	"	9"	BALLONA CREEK	1/4/29 TO DATE 2/
11C	UPPER FRANKLIN RESERVOIR	867	"	9"	FRANKLIN CANYON	9/29/37 TO DATE
15	VAN NUYS - CITY WAREHOUSE	695	"	9"	LOS ANGELES RIVER	8/18/30 TO DATE
33A'-E	PACOIMA DAM	1500	"	9"	PACOIMA CANYON	9/22/30 TO DATE
46D-E	BIG TUJUNGA DAM	2315	"	12"	BIG TUJUNGA CANYON	12/9/40 TO DATE
47D	CLEAR CREEK SCHOOL	3200	"	12"	BIG TUJUNGA CANYON	11/2/28 TO DATE
52C	WATERMAN GUARD STATION	3290	"	12"	ARROYO SECO	1/18/26 TO 2/28/28, 10/27/37 TO DATE
53D	COLBY'S	3475	"	12"	BIG TUJUNGA CANYON	4/19/26 TO 1/1928, 6/30/37 TO 12/26/40 2/14/41 TO DATE
54C	LOOMIS RANCH - ALDER CREEK	4300	"	9"	BIG TUJUNGA CANYON	11/24/31 TO DATE 1/
57B-E	OPID'S (CAMP HI HILL)	4250	"	12"	SAN GABRIEL - WEST FORK	12/14/25 TO DATE 2/
60A	HOEGEE'S	2650	"	12"	BIG SANTA ANITA CANYON	11/11/26 TO DATE
63B-E	BIG SANTA ANITA DAM	1400	"	12"	BIG SANTA ANITA CANYON	2/24/50 TO DATE
68E	SAWPIT DAM	1378	"	12"	SAWPIT CANYON	11/20/52 TO 7/20/53 12/17/53 TO DATE
69E	SAWPIT CANYON - HOGBACK	1775	"	12"	SAWPIT CANYON	11/28/50 TO DATE
70D	ROGER'S CANYON	770	"	9"	SAN GABRIEL RIVER	12/4/26 TO DATE
83C	BIG PINES RECREATION PARK	6860	"	12"	MESCAL CREEK	12/17/25 TO DATE
85G	MT. BALDY GUARD STATION	4275	"	12"	SAN ANTONIO CANYON	11/11/27 TO DATE 2/
89B-E	SAN DIMAS DAM	1350	"	12"	SAN DIMAS CANYON	2/27/50 TO 10/25/57 12/4/59 TO DATE
92	CLAREMONT - POMONA COLLEGE	1185	"	9"	SANTA ANA RIVER	12/2/27 TO DATE
96B-E	PUDDINGSTONE DAM	1030	"	12"	PUDDINGSTONE CREEK	10/14/52 TO DATE
108C	EL MONTE FIRE STATION	275	"	9"	RIO HONDO	10/11/38 TO DATE
116D	INGLEWOOD FIRE STATION	135	"	9"	CENTINELA CREEK	2/26/48 TO DATE
128E	ELIZABETH LAKE CANYON - WARM SPRINGS	2041	"	12"	ELIZABETH LAKE CANYON	2/21/56 TO DATE
156	LA MIRADA - STANDARD OIL CO.	86	"	12"	COYOTE CREEK	4/19/46 TO DATE
179G	BAILEY DEBRIS DAM	1180	"	9"	RIO HONDO	6/24/41 TO DATE
191B	LOS ANGELES - ALCAZAR	400	FLOAT	3"	LOS ANGELES RIVER	6/27/52 TO DATE
201	PUENTE HILLS - ALTA MIRA RANCH	860	WEIGHING	9"	SAN JOSE CREEK	9/15/38 TO 11/2/38 12/19/40 TO DATE
213D	LOS ANGELES - HANCOCK PARK	175	"	9"	BALLONA CREEK	1/13/29 TO DATE
223E-E	BIG DALTON DAM	1575	"	12"	BIG DALTON CANYON	10/14/52 TO DATE
235B	HENNIGER FLATS	2550	"	12"	EATON CANYON	1/2/30 TO DATE
250D	ACTON CAMP	2550	"	12"	SOLEDAD CANYON	1/4/57 TO DATE
259C	CHATSWORTH PATROL STATION	1254	"	9"	LOS ANGELES RIVER	8/17/37 TO DATE
261B-E	ACTON - ESCONDIDO CANYON	2920	"	9"	SANTA CLARA RIVER	11/23/30 TO DATE 2/
280B	FLINTRIDGE FIRE STATION	1345	"	9"	ARROYO SECO	7/26/30 TO DATE
283C	CRYSTAL LAKE	5370	"	12"	SAN GABRIEL - NORTH FORK	12/26/35 TO DATE
291	LOS ANGELES - 96TH AND CENTRAL	121	"	9"	LOS ANGELES RIVER	10/6/30 TO DATE
303F	PASADENA - CAL TECH	800	"	9"	ALHAMBRA WASH	12/13/30 TO DATE
334B-E	COGSWELL DAM	2330	"	12"	SAN GABRIEL - WEST FORK	1/14/32 TO DATE
338B	MOUNT WILSON - AIRWAYS STATION	5709	"	12"	SANTA ANITA CANYON	3/4/32 TO DATE 2/
352E	LECHUZA PATROL STATION	1530	"	9"	LACHUSA CANYON	11/28/34 TO DATE 2/
356C	SPADRA - PACIFIC COLONY	690	"	9"	SAN JOSE CREEK	3/30/38 TO DATE 2/
367	HAINES CANYON - UPPER	3450	"	30"	HAINES CANYON	1/13/33 TO DATE
372	SAN FRANCISQUITO POWER HOUSE NO. 2	1580	"	9"	SANTA CLARA RIVER	5/25/44 TO DATE
373B	BRIGGS TERRACE	2225	"	12"	PICKENS CANYON	11/28/33 TO DATE
379B	SAN GABRIEL - EAST FORK	1600	"	12"	SAN GABRIEL - EAST FORK	12/8/37 TO 8/1938 2/14/46 TO DATE
380	EL SERENO - MORGAN	525	"	9"	LOS ANGELES RIVER	11/1/34 TO DATE
402C	CEDAR SPRING	6665	"	12"	SAN GABRIEL RIVER	10/25/57 TO DATE
415	SIGNAL HILL CITY HALL	140	"	9"	SOUTH COASTAL PLAIN	3/15/37 TO DATE 2/
425E-E	SAN GABRIEL DAM	1481	"	12"	SAN GABRIEL RIVER	11/3/37 TO DATE 2/
433C	FAIROAKS DEBRIS BASIN	1580	"	9"	ARROYO SECO	9/14/38 TO DATE
434	MALIBU DIVISION HEADQUARTERS	800	"	9"	MEDEA CREEK	10/27/43 TO DATE
435	MONTE NIDO	600	"	9"	MALIBU CREEK	11/19/43 TO DATE
443B	LATIGO CANYON - BEACH RANCH	1700	"	12"	DUME CANYON	1/9/57 TO 8/31/60
444C	ROLLING HILLS	490	"	12"	DOMINGUEZ CHANNEL	7/13/48 TO DATE
445B	LIVE OAK DAM	1510	"	12"	LIVE OAK CANYON	3/20/40 TO 8/22/60
446	ALISO CANYON - OAT MT.	2367	"	12"	LOS ANGELES RIVER	7/2/40 TO DATE 2/
451B	CASTAIC PATROL STATION	1066	"	12"	SANTA CLARA RIVER	1/3/57 TO DATE
466B	PACOIMA CN. - DUTCH LOUIE CN.	3225	"	12"	PACOIMA CANYON	1/16/41 TO DATE
470	TUJUNGA - MILL CREEK	4600	"	12"	BIG TUJUNGA CANYON	10/18/41 TO 10/28/49 7/9/51 TO DATE 2/
477C	SANTA ANITA - SPRING CAMP	4675	"	12"	SANTA ANITA CANYON	11/25/41 TO DATE
486B	COLDWATER CANYON - WIDMAN RANCH	3865	"	12"	SAN GABRIEL - EAST FORK	9/22/43 TO DATE
492	CHILAO - STATE HIGHWAY MAINTENANCE STA.	5275	"	12"	SAN GABRIEL - WEST FORK	10/10/44 TO DATE
493B	SAND CANYON - BARRUS	1780	"	9"	SANTA CLARA RIVER	12/1/54 TO DATE
517B	ANDERSEN RANCH	4700	"	9"	PALLETT CREEK	12/17/43 TO DATE
1006	SAN PEDRO RESERVOIR	150	"	9"	SOUTH COASTAL PLAIN	3/7/46 TO DATE
1008-E	LA FRESA - S.C.E. CO. SUBSTATION	65	"	12"	LAGUNA DOMINGUEZ	8/29/46 TO DATE
1010B	PALMER CANYON - FORKS	2120	"	12"	THOMPSON CREEK	12/19/46 TO DATE
1013B	TUJUNGA CANYON ABOVE GOLD CN.	1650	"	12"	BIG TUJUNGA CANYON	9/29/47 TO DATE
1014D-E	RIO HONDO SPREADING GROUNDS	155	"	9"	RIO HONDO	9/29/47 TO DATE
1017	LITTLE ROCK CREEK ABOVE SANTIAGO CREEK	3330	"	12"	LITTLE ROCK CANYON	8/6/48 TO 4/7/59 11/9/59 TO DATE
1035	WHITTIER - WOOD	280	"	9"	SAN GABRIEL RIVER	10/27/52 TO DATE
1037-E	ARCADIA - ARBORETUM	565	"	12"	RIO HONDO	3/3/55 TO DATE
1060	LITTLE ROCK - SYCAMORE CAMP	3925	"	12"	LITTLE ROCK CREEK	7/21/53 TO DATE
1062	BUCKHORN FLAT	6660	"	12"	LITTLE ROCK CREEK	2/16/54 TO DATE
1074	LITTLE GLEASON	5600	"	12"	SANTA CLARA RIVER	9/29/54 TO DATE
1078	COVINA - GRIFFITH	975	"	9"	WALNUT CREEK	1/26/55 TO DATE
1080B	BRADBURY DEBRIS BASIN	935	"	12"	SAN GABRIEL RIVER	5/25/55 TO DATE
1088B	LA HABRA HTS. MUTUAL WATER CO.	445	"	12"	COYOTE CREEK	3/8/55 TO DATE
1107C	LA TUNA CANYON	1250	"	12"	LOS ANGELES RIVER	11/14/55 TO DATE
1108	ANAVERDE VALLEY - PLATT	2950	"	12"	AMARGOSA CREEK	6/1/56 TO DATE
X28B	HOLIDAY HILL	8150	"	12"	SAN GABRIEL RIVER	11/15/57 TO DATE
X29	PINE MOUNTAIN	4100	TIPPING BUCKET	UNLIMITED	SAN GABRIEL RIVER	12/26/58 TO DATE
X30	ANGELES CREST HIGHWAY - GRIZZLY	3050	WEIGHING	12"	ARROYO SECO	11/19/59 TO DATE

LEGEND

1/ PREVIOUS RECORD BY U.S.W.B. MARVIN GAGE FROM DECEMBER 1916 TO NOVEMBER 24, 1931.

2/ HOURLY AMOUNTS PUBLISHED IN U.S.W.B. HYDROLOGIC BULLETIN, SOUTH PACIFIC DISTRICT, AND HOURLY PRECIPITATION DATA FOR CALIFORNIA FROM OCTOBER 1, 1951. SUFFIX A, B, C, DENOTES FIRST, SECOND, OR THIRD LOCATION IN SAME LOCALITY UNDER NEARLY THE SAME CONDITIONS.
SUFFIX -E DENOTES EVAPORATION PAN AT STATION.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

ACTIVE AUTOMATIC RAIN GAGES

SEASON 1960-1961

FC NO.	NAME OF STATION	ELEV. OF GAGE	TYPE AND CAPACITY		WATERSHED	PERIOD OF RECORD
15	VAN NUYS CITY WAREHOUSE	695	WEIGHING	9"	LOS ANGELES RIVER	8/18/30 TO 1/16/61
15B	VAN NUYS CITY WAREHOUSE	695	"	9"	LOS ANGELES RIVER	1/16/61 TO DATE
443B	LATIGO CANYON - BEACH RANCH	1700	"	12"	DUME CANYON	1/9/57 TO 8/31/60
445B	LIVE OAK DAM	1510	"	12"	LIVE OAK CANYON	3/20/40 TO 8/22/60
1017	LITTLE ROCK CREEK ABOVE SANTIAGO CR.	3330	"	12"	LITTLE ROCK CREEK	8/6/48 TO 4/7/59 11/9/59 TO 5/2/61
1017B	LITTLE ROCK CREEK ABOVE DAM	3325	"	12"	LITTLE ROCK CREEK	5/18/61 TO DATE
1144	SAN GABRIEL - NORTH FORK	2225	"	12"	SAN GABRIEL CANYON	10/4/60 TO DATE
1146	SANTA ANITA CANYON HELIPORT	2575	TIPPING BUCKET	UNLIMITED	SANTA ANITA CANYON	1/31/61 TO DATE

LEGEND

NOTE: THE DISTRICT ALSO HAS RECORDS OF SEVERAL AUTOMATIC GAGES AT STATIONS WHICH ARE NOW INACTIVE. THESE RECORDS ARE AVAILABLE IN THE DISTRICT'S FILES.

SEASON 1960-61 TABULATION IS IDENTICAL WITH 1959-60 TABULATION WITH THE EXCEPTION OF STATION NUMBERS: 15B, 443B, 445B, 1017B, 1144, AND 1146.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

PRIVATE ACTIVE AUTOMATIC RAIN GAGES

SEASON 1959 - 1960

FC NO.	NAME OF STATION	ELEV. OF GAGE	TYPE AND CAPACITY		WATERSHED	PERIOD OF RECORD
23-E	CHATSWORTH RESERVOIR	865	WEIGHING	12"	LOS ANGELES RIVER	10/23/45 TO DATE *** **
87	SAN DIMAS GUARD STATION	1485	"	12"	SAN DIMAS CANYON	12/11/25 TO 11/23/26*
						11/19/42 TO DATE **
124B	BOUQUET CANYON RESERVOIR	3050	FLOAT	9"	SANTA CLARA RIVER	11/11/31 TO DATE *
139B	LOS ANGELES WATER DEPARTMENT	450	WEIGHING	5.5"	LOS ANGELES RIVER	12/22/38 TO DATE *
140B	SAWTELLE	232	"	12"	BALLONA CREEK	10/5/51 TO DATE *
157B	EL SEGUNDO - STANDARD OIL COMPANY	150	"	12"	WEST COASTAL PLAIN	6/16/48 TO DATE
158	TANBARK FLATS	2750	"	12"	SAN DIMAS CREEK	1/16/29 TO DATE *** **
210B	BRAND PARK	1250	"	30"	LOS ANGELES RIVER	12/27/28 TO DATE
228B	BEVERLY HILLS - CITY HALL	290	"	9"	BALLONA CREEK	10/14/31 TO DATE
269B	DIAMOND BAR RANCH - HORSE CAMP	748	"	12"	BREA CANYON	12/3/41 TO DATE *** **
311b	PASADENA METEOROLOGICAL STATION	918	TIPPING BUCKET		ARROYO SECO	10/1/38 TO DATE *
357	VAN NORMAN RESERVOIR - UPPER	1248	WEIGHING	12"	WELDON CANYON	12/4/45 TO DATE *** **
407-E	NEWHALL - U.S.F.S. HEADQUARTERS	1325	"	12"	SANTA CLARA RIVER	12/1949 TO DATE *** **
409	RIDGE ROUTE - STATE HIGHWAY MAINT. STA.	2425	"	12"	SANTA CLARA RIVER	12/1/58 TO 4/60 *
436B	HANSEN DAM	975	"	30"	TUJUNGA WASH	10/30/40 TO DATE *** **
453B	DEVILS GATE DAM	1090	"	12"	ARROYO SECO	11/20/52 TO 9/15/53
						1/27/54 TO 11/14/55
						11/23/55 TO DATE
465C	SEPULVEDA DAM	683	"	12"	LOS ANGELES RIVER	10/23/45 TO DATE *** **
471	LITTLE TUJUNGA - GOLD CREEK	2750	FLOAT	UNLIMITED	LITTLE TUJUNGA CANYON	10/30/41 TO DATE *** **
565B	LONG BEACH - CITY AUTOMATIC	11	WEIGHING	12"	SOUTH COASTAL PLAIN	11/8/24 TO DATE
566	LONG BEACH NO. 1	15	"	12"	SOUTH COASTAL PLAIN	11/13/55 TO DATE
577F	LOS ANGELES - U.S.W.B. (FEDERAL BLDG.)	548	TIPPING BUCKET		LOS ANGELES RIVER	3/1/40 TO DATE *** *
619	SAN ANTONIO CANYON - SIERRA P.H.	3200	WEIGHING	12"	SAN ANTONIO CANYON	7/24/56 TO DATE *
662B	LONG BEACH - KEEVER AVENUE	80	"	12"	SOUTH COASTAL PLAIN	10/1/59 TO DATE
666C	LONG BEACH - NEECE STREET	55	"	12"	SOUTH COASTAL PLAIN	9/1953 TO DATE
683	SUNSET RIDGE GUARD STATION	2110	"	12"	ARROYO SECO	10/16/45 TO 3/31/47 **
						10/20/55 TO DATE **
716	LOS ANGELES WATER DEPT. DUCOMMUN STREET	300	"	12"	LOS ANGELES RIVER	10/1/59 TO DATE
724	BIG DALTON - MONROE CANYON	1775	"	6"	BIG DALTON CANYON	3/15/39 TO DATE **
725	BIRMINGHAM HOSPITAL	724	"	12"	LOS ANGELES RIVER	8/4/44 TO DATE *** **
726B	ANGELES CREST - GUARD STATION	2300	"	12"	ARROYO SECO	10/16/45 TO DATE
734B	LOS ANGELES INTERNATIONAL AIRPORT	126	TIPPING BUCKET		LAGUNA DOMINGUEZ	10/18/48 TO DATE *** *
740B	SAN DIMAS CANYON - FERN CANYON	5200	WEIGHING	12"	SAN DIMAS CREEK	10/12/36 TO DATE **
741	SAN DIMAS CANYON - UPPER EAST FORK	2765	"	12"	SAN DIMAS CREEK	10/4/34 TO DATE **
747	SANDBERG AIRWAYS STATION	4517	"	12"	SANTA CLARA RIVER	4/2/32 TO DATE *** *
749	BURBANK - U.S.W.B. (AIRPORT)	699	"	12"	LOS ANGELES RIVER	9/20/31 TO DATE *** **
755	GRIFFITH PARK - LITTLE CANYON	900	"	12"	LOS ANGELES RIVER	9/4/47 TO DATE *
756	GRIFFITH PARK - UPPER SPRING CANYON	1200	"	12"	LOS ANGELES RIVER	9/2/47 TO DATE *
757	GRIFFITH PARK - FERN DELL	750	"	12"	BALLONA CREEK	9/4/47 TO DATE *
758	GRIFFITH PARK - LOWER SPRING CANYON	600	"	12"	LOS ANGELES RIVER	9/3/47 TO DATE *
759B	NICHOLS DEBRIS BASIN	478	"	12"	NICHOLS CANYON	9/11/47 TO DATE *
760	STUDIO CITY - 3913 GOODLAND AVENUE	680	"	12"	LOS ANGELES RIVER	10/3/47 TO DATE *
762	UPPER STONE CANYON	943	"	12"	BALLONA CREEK	9/4/47 TO DATE *
766	MANDEVILLE CANYON - FIRE ROAD NO. 24	1625	"	12"	MANDEVILLE CANYON	9/5/47 TO DATE *
769	SANTA YNEZ CN. - TEMESCAL FIRE RD. NO. 30	1980	"	12"	SANTA YNEZ CANYON	9/5/47 TO DATE *
770	SANTA YNEZ CN. - PASEO MIRAMAR	700	"	12"	SANTA YNEZ CANYON	9/11/47 TO DATE *
771	RUSTIC CANYON - SANTA MONICA MOUNTAINS	265	"	12"	RUSTIC CANYON	9/10/47 TO DATE *
772	L.A. - ECHO PARK AND LUCRETIA	475	"	12"	BALLONA CREEK	9/15/47 TO DATE *
774	BARLOW SANITARIUM	450	"	8"	LOS ANGELES RIVER	12/19/47 TO DATE *
779	GRIFFITH PARK - LOWER MINERAL WELLS	625	"	12"	LOS ANGELES RIVER	11/1947 TO DATE *
780	GRIFFITH PARK - UPPER MINERAL WELLS	950	"	12"	LOS ANGELES RIVER	11/5/47 TO DATE *
783	COON CANYON	1268	"	12"	ARROYO SECO	10/1948 TO DATE *
796	FIRE DEPARTMENT - ELYSIAN PARK	737	"	12"	LOS ANGELES RIVER	9/20/48 TO DATE *
801	MAGIC MOUNTAIN	4450	FLOAT	UNLIMITED	PACOIMA CANYON	3/19/47 TO DATE *** *
1041B	SANTA FE DAM	427	WEIGHING	12"	SAN GABRIEL RIVER AND RIO HONDO	10/24/45 TO DATE *** *
1058	PALMDALE 2 NE	2583	"	12"	MOHAVE DESERT	3/27/53 TO DATE ***
1066B	LONG BEACH - LEES STREET	10	"	12"	SOUTH COASTAL PLAIN	7/1/59 TO DATE
1075	UPPER WOLFSKILL CANYON	3625	"	12"	SAN DIMAS CANYON	12/14/37 TO 5/28/46 *
						1/7/54 TO DATE *
1093-E	FULLERTON AIRPORT	94	"	5"	COYOTE CREEK	1/1955 TO DATE *
1095	ORANGE COUNTY RESERVOIR	600	"	12"	BREA CANYON	10/17/41 TO DATE *** **
1106	ANTELOPE VALLEY FIELD STA.	2540	"	9"	ANTELOPE VALLEY	1/24/56 TO DATE
1113	DOMINGUEZ WATER CO.	30	"	12"	SOUTH COASTAL PLAIN	11/1/55 TO DATE **
1114	WHITTIER NARROWS DAM	255	"	12"	RIO HONDO	6/4/57 TO DATE **
1115	SAN ANTONIO DAM	2120	"	12"	SAN ANTONIO CANYON	8/1/56 TO DATE *
1118	LAKEWOOD	55	"	12"	SAN GABRIEL RIVER	9/15/56 TO DATE *
1138	MT. DISAPPOINTMENT	5900	"	12"	ARROYO SECO	11/20/59 TO DATE
X31	MT. LUKENS DISPOSAL AREA	3250	"	12"	ARROYO SECO	11/22/59 TO DATE

PRIVATE ACTIVE AUTOMATIC RAIN GAGES

SEASON 1960 - 1961

FC NO.	NAME OF STATION	ELEV. OF GAGE	TYPE AND CAPACITY		WATERSHED	PERIOD OF RECORD
87B	SAN DIMAS GUARD STATION	1485	WEIGHING	12"	SAN DIMAS CANYON	12/11/25 TO 11/23/26*
						11/19/42 TO DATE**
140B	SAWTELLE	232	"	12"	BALLONA CREEK	10/5/51 TO 7/16/61*
409	RIDGE ROUTE - STATE HIGHWAY MAINT. STA.	2425	"	12"	SANTA CLARA RIVER	12/1/58 TO 4/60*
445B	LIVE OAK DAM	1510	"	12"	LIVE OAK CANYON	11/3/60 TO DATE
449B	EATON DAM	800	"	12"	EATON WASH	10/31/50 TO 12/2/57
						10/5/59 TO 12/22/59
						10/12/60 TO DATE

LEGEND

* DISTRICT HAS NO FILE OF AUTOMATIC CHART RECORDS.
** DISTRICT HAS INCOMPLETE FILE OF AUTOMATIC CHART RECORDS.
*** HOURLY AMOUNTS PUBLISHED IN U.S.W.B. HYDROLOGIC BULLETIN, SOUTH PACIFIC DISTRICT. AND HOURLY PRECIPITATION DATA FOR CALIFORNIA FROM OCTOBER 1, 1951.
SUFFIX A, B, C, DENOTES FIRST, SECOND, OR THIRD LOCATION OF STATION IN SAME LOCALITY UNDER NEARLY THE SAME CONDITIONS.

NOTE: THE DISTRICT ALSO HAS RECORDS OF SEVERAL AUTOMATIC GAGES AT STATIONS WHICH ARE NOW INACTIVE. THESE RECORDS ARE AVAILABLE IN THE DISTRICT'S FILES.

SEASON 1960-61 TABULATION IS IDENTICAL WITH 1959-60 TABULATION WITH THE EXCEPTION OF STATION NUMBERS: 87B, 140B, 409, 445B AND 449B.

TABLE II

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

COMPARATIVE MAXIMUM RAINFALL DEPTHS IN INCHES

SEASONS 1959-60, 1960-61 AND MAXIMUM OF RECORD FOR SELECTED STATIONS

		#716 LOS ANGELES DUCOMMUN STREET		#158 VAN NUYS		#108C EL MONTE FIRE STA.		#425B SAN GABRIEL DAM		#261B ACTON ESCONDIDO CN.		#6 TOPANGA CANYON		#92 POMONA COLLEGE CLAREMONT		#57B OPID'S (CAMP HI HILL)		#60A HOEGEES		#303F CAL TECH PASADENA	
		1959-1960	MAXIMUM	1959-1960	MAXIMUM	1959-1960	MAXIMUM	1959-1960	MAXIMUM	1959-1960	MAXIMUM	1959-1960	MAXIMUM	1959-1960	MAXIMUM	1959-1960	MAXIMUM	1959-1960	MAXIMUM	1959-1960	MAXIMUM
5 MIN.	AMT.	.09	.44	.07	.33	.11	.54	.12	.60	.04	.29	.12	.50	.07	.40	.08	1.17	.10	.43	.06	.32
	DATE	2/29	1/14/08	1/11	12/15/38	1/25	5/11/57	2/29	4/5/26	1/10	8/26/35	4/27	1/22/43	4/27	12/6/46	4/27	4/5/26	1/10	4/29/35	1/11	3/3/43
10 MIN.	AMT.	.12	.66	.11	.43	.18°°	.68	.18	.62	.07	.41	.23	.70	.10	.46	.14	1.18	.15	.52	.10	.47
	DATE	1/11	2/18/14	1/11	1/8/40	4/27	5/11/57	4/27	4/5/26	1/10	8/26/35	1/10	2/20/41	4/27	12/6/46	4/27	4/5/26	1/10	2/3/58	1/11	2/23/57
15 MIN.	AMT.	.20	.81	.15	.50	.22°°	.77	.23	.68	.11	.44	.33	.91	.15	.50	.18	1.18	.16	.65	.13	.62
	DATE	1/11	2/18/14	1/11	12/15/38	4/27	5/11/57	4/27	4/5/26	1/10	8/26/35	4/27	2/20/41	4/27	9/29/46	4/27	4/5/26	4/27	12/21/45	1/11	2/23/57
30 MIN.	AMT.	.35	1.12	.26	.88	.29°°	.89	.25	.96	.16	.66	.60	1.25°°	.22	.72	.28	1.52	.25	1.06	.23	1.08
	DATE	1/11	2/18/14	1/11	12/28/41	4/27	5/11/57	4/27	4/5/26	1/10	10/1/32	4/27	1/22/43	4/27	9/29/46	4/27	4/5/26	2/1	3/3/43	1/11	3/3/43
1 HR.	AMT.	.55	1.51	.40	1.26	.53°°	1.08	.45	1.25	.21	.93°°	1.05	2.17°°	.32	1.00	.49	2.21	.45	1.70	.39	1.70
	DATE	1/11	2/18/14	1/11	12/28/41	4/27	2/19/58	4/27	1/22/43	1/10	8/24/35	4/26	1/22/43	2/1	1/6/59	1/12	4/5/26	2/1	3/3/43	1/11	3/3/43
2 HRS.	AMT.	.95	1.99	.69	1.52	.91°°	1.54	.72	2.34	.30	1.48°°	1.90	2.85°°	.49	1.63	.94°°	3.83	.77	2.88	.69	2.36
	DATE	1/11	2/18/14	1/11	1/6/59	4/27	1/26/56	2/1	1/22/43	1/10	8/24/35	4/27	1/22/43	2/1	12/31/33	1/11	4/5/26	2/1	3/2/38	1/11	3/3/43
3 HRS.	AMT.	1.23	2.28	.87	2.13	1.21°°	2.21	.96	3.28	.34	1.48°°	2.55	3.68	.65	2.27	1.36	4.95	1.06	4.00	.94	3.02
	DATE	1/11	2/18/14	1/11	1/22/43	4/27	1/26/56	2/1	1/22/43	1/10	8/24/35	4/26	12/31/33	2/1	12/31/33	1/11	3/2/38	2/1	3/2/38	1/11	12/31/33
4 HRS.	AMT.	1.40	2.71	.97	2.67°°	1.69°°	2.72	1.13	4.32	.41	1.57	3.08	4.34	.80	2.96	1.73°°	6.16	1.27	5.30	1.06	3.80
	DATE	1/11	1/26/56	4/26	1/22/43	4/27	1/26/56	2/1	1/22/43	1/10	1/22/43	4/26	12/31/33	2/1	1/22/43	1/11	3/2/38	2/1	3/2/38	1/11	12/31/33
5 HRS.	AMT.	1.55	3.06	1.14	3.13°°	1.85°°	3.15	1.27	5.30	.42	1.82	3.50	5.24	.91	3.25	1.88	7.24	1.47	6.48	1.26	4.55
	DATE	1/11	3/2/38	4/26	1/22/43	4/26	1/26/56	2/1	1/22/43	1/10	1/22/43	4/26	12/31/33	2/1	1/22/43	1/11	3/2/38	2/1	1/22/43	4/26	12/31/33
12 HRS.	AMT.	1.65	5.02°°	1.50	5.29	2.22°°	5.41	2.00	10.35	.48	3.14	4.13	9.79	1.21	5.26	2.07	13.38	1.86	13.36	1.64	7.98
	DATE	4/26	1/26/56	4/26	12/31/33	4/26	1/26/56	1/10	1/22/43	1/10	1/22/43	4/26	12/31/33	4/26	1/26/56	1/11	3/2/38	1/10	1/22/43	4/26	12/31/33
24 HRS.	AMT.	1.73	7.36	1.65	8.13°°	2.28	7.23	2.26	17.81	.60	4.44	4.15	13.63	1.23	7.92	2.42	21.68	2.32	26.12	1.78	11.26°°
	DATE	4/26	12/31/33	4/26	1/21/43	4/26	1/26/56	4/26	1/22/43	2/28	1/22/43	4/26	12/31/33	4/26	12/31/33	4/26	1/22/43	4/26	1/22/43	4/26	12/31/33
STORM TOTAL																					
AUTO.	AMT.	1.80	8.31°°	1.78	INC.	INC.	9.18	2.41	24.07	.66	6.45	4.15	INC.	1.31	10.70	2.70	32.15	2.59	37.42	1.90	13.64
	DATE	4/26-4/27	1/25/56 1/27/56	4/26-4/28	1/21/43-1/23/43	4/26-4/27	1/25/56-1/27/56	4/26-4/27	1/21/43-1/23/43	2/28-3/1	1/21/43-1/23/43	4/26-4/27	1/21/43-1/24/43	4/26-4/27	1/21/43-1/24/43	4/26-4/28	1/21/43-1/23/43	4/26-4/27	1/21/43-1/23/43	1/26-1/27	1/21/43-1/23/43
STD.	AMT.	1.80	9.67	1.81	11.31	2.28	12.99	2.48	25.08	.68	6.69	4.12	17.38	1.32	11.03	2.76	33.95	2.73	37.34	1.98	13.86
	DATE	4/26-4/27	3/2/84-3/10/84	4/26-4/28	1/21/43-1/23/43	4/26-4/27	12/30/33-1/2/34	4/26-4/27	12/17/21-12/22/21	2/28-3/1	12/18/21-12/27/21	4/26-4/27	1/24/43-1/24/43	4/26-4/27	2/10/27-2/18/27	4/26-4/28	12/18/21-12/23/21	4/26-4/27	1/21/43-1/23/43	1/26-1/27	1/21/43-1/23/43
		1960-1961		1960-1961		1960-1961		1960-1961		1960-1961		1960-1961		1960-1961		1960-1961		1960-1961		1960-1961	
5 MIN.	AMT.	.15		.15		.18°°		.17		.15		.21		.17		.27		.28		.16	
	DATE	11/6		8/11		11/5		11/12		8/5		11/5		11/6		11/6		11/5		11/5	
10 MIN.	AMT.	.20		.25		.22°°		.25		.29		.24		.19		.50		.50		.22	
	DATE	11/6		8/11		11/5		11/12		8/5		11/5		11/6		11/6		11/5		11/5	
15 MIN.	AMT.	.32		.33		.26°°		.41		.33		.30		.21		.62		.70		.28	
	DATE	11/6		8/11		1/26		11/12		8/5		11/5		11/6		11/6		11/5		11/5	
30 MIN.	AMT.	.44		.40		.41°°		.60		.34		.49		.28		.78		1.10		.33	
	DATE	11/6		8/11		11/5		11/12		8/5		11/5		11/6		11/6		11/5		11/5	
1 HR.	AMT.	.46		.55		.51°°		.72		.38°°		.65		.49		.82		1.15		.39	
	DATE	11/6		11/5		1/26		11/12		3/15		11/5		11/6		11/6		11/5		1/26	
2 HRS.	AMT.	.57		.72		.81°°		1.00		.48		.97		.58		.93		1.30		.56	
	DATE	1/26		11/5		1/26		11/12		11/5		11/5		11/6		11/5		11/5		1/26	
3 HRS.	AMT.	.73		.74		.96°°		1.45		.58		1.30		.58		1.08		1.38		.74	
	DATE	1/26		11/5		1/26		11/12		11/5		1/26		11/6		1/26		11/5		1/26	
4 HRS.	AMT.	.83		.80		.99°°		1.70		.63		1.39		.63		1.40		1.57		.81	
	DATE	1/26		1/26		1/26		11/12		11/5		1/26		11/6		1/26		1/26		1/26	
5 HRS.	AMT.	.83		.94		1.00°°		1.87		.67		1.62		.69		1.66		1.88		.99	
	DATE	1/26		1/26		1/26		11/12		11/5		1/26		11/6		1.26		1.26		1/26	
12 HRS.	AMT.	1.10		1.40		1.53°°		2.16		.94		2.15		1.08		3.18		3.04		1.45	
	DATE	1/26		1/26		1/26		11/12		11/5		1/25		11/6		1/26		1/26		1/26	
24 HRS.	AMT.	1.21		1.50		1.54°°		2.25		1.19		2.15		1.48		3.41		3.23		1.46	
	DATE	1/25		11/5		1/25		1/26		11/5		1/25		11/5		1/25		1/25		1/25	
STORM TOTAL																					
AUTO.	AMT.	1.47		1.89		INC.		2.25		1.22		2.77		1.48		3.65		3.40		1.53	
	DATE	1/25-1/26		11/3-11/6		1/25-1/26		1/26		11/5-11/6		1/24-1/26		11/5-11/6		1/25-1/27		1/25-1/26		1/25-1/26	
STD.	AMT.	1.50		1.90		1.70		2.26		1.22		2.82		1.48		3.70		3.55		1.59	
	DATE	1/25-1/26		11/3-11/6		1/25-1/26		1/26		11/5-11/6		1/24-1/26		11/5-11/6		1/25-1/27		1/25-1/26		1/25-1/26	

LEGEND

°° - INDICATES ESTIMATED VALUE
INC. - INCOMPLETE RECORD
DATE - INDICATES BEGINNING OF PERIOD

NOTE: RAINFALL DEPTHS IN INCHES ARE TAKEN FROM AUTOMATIC RAIN GAGES EXCEPT WHERE INDICATED AS STANDARD AMOUNT.
REFER TO TABLE I, PAGE 8, FOR PERIOD OF AUTOMATIC RAIN GAGE RECORD.

TABLE III

DAILY RAINFALL IN INCHES FOR SELECTED STATIONS

SEASON 1959-60

OCTOBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E	.07																															.07
15	VAN NUYS	B	.23																															.23
32C	NEWHALL	C																																0
33A'E	PACOIMA DAM	E																										T	.03					.03
57B-E	OPID'S	E	.10																													T	T	.10
85F	MT. BALDY	B	.18																													25		.43
106C	WHITTIER	E																																0
130B	SANDBERG'S	C																																0
185	GLENDORA	E																										.03	.05			T		.08
241B	LONG BEACH	A		T																							T	T						T
256B	POMONA	E																									T	T						T
283C	CRYSTAL LAKE	E	.21																													T	T	.21
321-E	PINE CANYON	C																																0
425B-E	SAN GABRIEL DAM	E	.03																										.01			.02		.06
440B	CHILAO	B																														.05		.05
455	LANCASTER	E																																0
478	VALYERMO	E	.12																														.08	.20
577F	LOS ANGELES	F																										T	T				T	T
610B	PASADENA	E																										T	T					T
634B	SANTA MONICA	D																																0

NOVEMBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		TOTAL
6	TOPANGA	E																																0
15	VAN NUYS	B																																0
32C	NEWHALL	C																																0
33A'E	PACOIMA DAM	E		T																														T
57B-E	OPID'S	E	.02																															.02
85F	MT. BALDY	B	1.02	.30																														1.32
106C	WHITTIER	E	.03	.04																														.07
130B	SANDBERG'S	C																																0
185	GLENDORA	E		.07																														.07
241B	LONG BEACH	A	T	.02																														.02
256B	POMONA	E	.15																															.15
283C	CRYSTAL LAKE	E	.69	.51																														1.20
321-E	PINE CANYON	C																																0
425B-E	SAN GABRIEL DAM	E	T	.06																														.06
440B	CHILAO	B	.32	.22																														.54
455	LANCASTER	E	T																															T
478	VALYERMO	E		.13																														.13
577F	LOS ANGELES	F	.06	.01																														.07
610B	PASADENA	E	.03	.02																														.05
634B	SANTA MONICA	D																																0

DECEMBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E								.04												T	.22			.57	.92							1.75
15	VAN NUYS	B								T	.06												.18	T		.46	.85							1.55
32C	NEWHALL	C										T										T	.28			1.15								1.43
33A'E	PACOIMA DAM	E								.01		.02										T	.18			1.07	.08							1.36
57B-E	OPID'S	E								.09		.05										.04	.62			1.91	.20							2.91
85F	MT. BALDY	B								.15		.93											.53			.62	1.01	.14						3.38
106C	WHITTIER	E								.05													.21			.88	.30							1.44
130B	SANDBERG'S	C														.05							.27				1.30					.06		1.68
185	GLENDORA	E								.04		.06											.27		.01	1.02	.56					.01		1.97
241B	LONG BEACH	A									.07	.01											.30			.38	.76							1.52
256B	POMONA	E								.05		.04											.58			.66	.31							1.64
283C	CRYSTAL LAKE	E								.11		.06										.04	.64			1.28	.40							2.53
321-E	PINE CANYON	C																				.03	.53			1.08	.04					.02		1.70
425B-E	SAN GABRIEL DAM	E								T	.10	.08											.40			1.05	.38							2.01
440B	CHILAO	B										.14											.51			.24	.86							1.75
455	LANCASTER	E									.02	.01											.52				.58							1.13
478	VALYERMO	E								T		.18											.32			1.01	.03							1.54
577F	LOS ANGELES	F								.03	T											.05	.09		T	.88	.04							1.09
610B	PASADENA	E								.07		.02											.22			1.15	.17							1.63
634B	SANTA MONICA	D								.03												.15				.85								1.03

JANUARY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E									.21	2.48		2.00		.57	.21				.02						.45	.08						6.02
15	VAN NUYS	B	T									1.04	.18	1.03	T	T	.37	.02						T			.10	.13						2.87
32C	NEWHALL	C									.02	1.79	.01	.84		.22	.08							.15			.42	.02						3.55
33A'E	PACOIMA DAM	E									.01	.99		.97		.25	.28						T	.01			.52	.07						3.10
57B-E	OPID'S	E									.14	2.27	.02	2.10		.57	.06	.03						.36			.64	.08						6.27
85F	MT. BALDY	B										.22	1.20	1.00	.33		.83	.06						.18			.15	.43						4.40
106C	WHITTIER	E									T	.78	.01	1.16		.34	.08										.05	.12						2.54
130B	SANDBERG'S	C	.13									2.00		.42			.56						.05				.08							3.24
185	GLENDORA	E									.01	1.19		1.00		.23	.30							.05			.09	.25						3.12
241B	LONG BEACH	A									T	.30	.23	.59			1.10	T						T				.12						2.34
256B	POMONA	E											1.10	.97		.22	.05							.01			.02	.26						2.63
283C	CRYSTAL LAKE	E									.05	2.23	.09	1.22		.55	.36	.11						.25			.81	.49						6.16
321-E	PINE CANYON	C										1.22	.03	.62		.26	.20	.75							.05		.57	.04						3.74
425B-E	SAN GABRIEL DAM	E									.02	1.99	.10	1.08	.09	.33	.25							.07			.20	.39						4.52
440B	CHILAO	B										.79	1.30	.84			.50	.15						.04	.04		.15	.21						4.02
455	LANCASTER	E										.43		.32			.33										.12	.03						1.23
478	VALYERMO	E										.80		.40		.15		.03			.02						.06							1.46
577F	LOS ANGELES	F									.02	.95	1.28	.04		.34	.14							T	T	T	.17							2.94
610B	PASADENA	E									.06	1.37		1.02		.30	.26							.02			.17	.08						3.28
634B	SANTA MONICA	D										1.55		1.32		.42	.18							T				.34						3.81

DAILY RAINFALL IN INCHES FOR SELECTED STATIONS

SEASON 1959-60

FEBRUARY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	TOTAL
6	TOPANGA	E	.69	1.14	.10					.30	.16	.13																		.04	1.02	3.58
15	VAN NUYS	B		.84		.01				T	.23	.07																			.78	1.93
32C	NEWHALL	C	.22	.67	.62					.10	.13	.05																		.17	.52	1.88
33A'E	PACOIMA DAM	E	.34	.85	T					.26	.32	.07																		.10	.58	2.52
57B-E	OPID'S	E	.16	1.14						.17	.38	.12																		.12	1.18	3.27
85F	MT. BALDY	B		1.15		.06					.75	.20									.18								.02		.80	3.16
106C	WHITTIER	E	.17	1.14						.07	.17	.21																		.21	.63	2.60
130B	SANDBERG'S	C			.01					.02											.29									.44	.76
185	GLENDORA	E	.15	.97	.01					.22	.74	.24																		.12	.49	2.94
241B	LONG BEACH	A		1.64		T		T	T	T	.21	.10																			1.02	2.97
256B	POMONA	E	T	1.14	T										.13	.60	.20												.02	.65	.14	2.88
283C	CRYSTAL LAKE	E	.22	.89	.02					.05	.65	.11	.01								.06									.20	1.28	3.49
321-E	PINE CANYON	C	.30	.18	.03	.01				.10	.30	.01									.39									.11	.65	2.08
425B-E	SAN GABRIEL DAM	E	.16	1.37	T					.35	.82	.12									T									.14	.92	3.88
440B	CHILAO	B		.53		T					.22	.10	.02								.04										.84	1.75
455	LANCASTER	E	T		.04					.01											.37										.87	1.29
478	VALYERMO	E		.05	.03																										.83	.91
577F	LOS ANGELES	E	.91		T					.42		.10																	T	.31	.52	2.26
610B	PASADENA	E	.11	.85	.02					.13	.38	.14																		.10	.52	2.25
634B	SANTA MONICA	D	.36	1.16	T					.10		.42																			.94	2.98

MARCH

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E	.06																											.24				.30
15	VAN NUYS	E	.12																											.12				.24
32C	NEWHALL	C	.05																											.12				.17
33A'E	PACOIMA DAM	E	.15												T														.02	.84				1.01
57B-E	OPID'S	E	.58											.03															.50					1.08
85F	MT. BALDY	E	.73												T															.37				1.10
106C	WHITTIER	E	.12																											.30				.42
130E	SANDBERG'S	C																													.08			.08
185	GLENDORA	E	.33												.13														T	.45				.91
241E	LONG BEACH	A	.04	T																					T					.13				.17
256B	POMONA	E	.26												.07															.47				.80
283C	CRYSTAL LAKE	E	.40																											.47				.87
321-E	PINE CANYON	C	.18																											.28				.46
425B-E	SAN GABRIEL DAM	E	.32												.07														.01	.53				.93
440E	CHILAO	B	.51												.05											T				.15				.71
455	LANCASTER	E	.04																											T				.04
478	VALYERMO	E																																0
577F	LOS ANGELES	E	.09											T	T										T		T		.15	.07				.31
610B	PASADENA	E	.29																										.01	.26				.56
634B	SANTA MONICA	D																												.24				.24

APRIL

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E																							.02				4.12				4.14
15	VAN NUYS	B																											1.52	.29			1.81
32C	NEWHALL	C																						.04					1.69	.02			1.75
33A'E	PACOIMA DAM	E																						.01					1.02	0.59			1.62
57B-E	OPID'S	E											T											.32	.10	.07			2.19	.57			3.25
85F	MT. BALDY	B																						.10	.35	.57			1.34	1.10			3.46
106C	WHITTIER	E																								.01			1.77	.24			2.02
130B	SANDBERG'S	C																								.07			1.12		.12		1.31
185	GLENDORA	E											.24											.01	.02				1.53	.46			2.26
241B	LONG BEACH	A																						T	T	.14			1.05	.02			1.21
256B	POMONA	E												.09										T					1.29	.05			1.43
283C	CRYSTAL LAKE	E																						.70	.30	.02			1.45	.83			3.30
321-E	PINE CANYON	C																						.07	.09	.02			2.80				2.98
425B-E	SAN GABRIEL DAM	E												.01										.14	.02	T			1.44	1.04			2.65
440B	CHILAO	B				T																		.04	.05	.16			1.23	.52			2.00
455	LANCASTER	E																								T			.14	.04			.18
478	VALYERMO	E											T																.26	.01			.27
577F	LOS ANGELES	E																					T		T			.63	.82				1.45
610B	PASADENA	E																						.04	.03				1.50	.19			1.76
634B	SANTA MONICA	D																											2.00	.01			2.01

MAY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E																																0
15	VAN NUYS	B				T																												T
32C	NEWHALL	C															T																	T
33A'E	PACOIMA DAM	E			T																													T
57B-E	OPID'S	E			T																												T	.15
85F	MT. BALDY	B				.15																												.11
106C	WHITTIER	E				.11																												0
130B	SANDBERG'S	C																																.08
185	GLENDORA	E			.03	.05										T																		.09
241B	LONG BEACH	A				.09																												.08
256B	POMONA	E			.02	.06																									.06			.09
283C	CRYSTAL LAKE	E			T	.03																												.08
321-E	PINE CANYON	C			.08	T																												.10
425B-E	SAN GABRIEL DAM	E			.04	.06																												0
440E	CHILAO	B																																T
455	LANCASTER	E		T																												T		T
478	VALYERMO	E																																.05
577F	LOS ANGELES	E			.01	.04																												.04
610B	PASADENA	E			.02	.02																												0
634B	SANTA MONICA	D																																

DAILY RAINFALL IN INCHES FOR SELECTED STATIONS

SEASON 1959-60

JUNE

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E																															0
15	VAN NUYS	B																															0
32C	NEWHALL	C																															0
33A'E	PACOIMA DAM	E																															0
57B-E	OPID'S	E																															0
85F	MT. BALDY	B																															0
106C	WHITTIER	E																															0
130B	SANDBERG'S	C																															0
185	GLENDORA	E				.02	.01																										0
241B	LONG BEACH	A					T								T																		.03
256B	POMONA	E																															T
283C	CRYSTAL LAKE	E																															0
321-E	PINE CANYON	C																															0
425B-E	SAN GABRIEL DAM	E					T																										0
440B	CHILAO	E																															0
455	LANCASTER	E																															T
478	VALYERMO	E																															0
577F	LOS ANGELES	F				T	T	T									T																0
610B	PASADENA	E				.01																											0
634B	SANTA MONICA	E																															T
																																	.01
																																	0

JULY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E																																0
15	VAN NUYS	E																																0
32C	NEWHALL	C																																0
33A'E	PACOIMA DAM	E																																0
57B-E	OPID'S	E																																0
85F	MT. BALDY	C																																0
106C	WHITTIER	E																																0
130B	SANDBERG'S	C																																0
185	GLENDORA	E																																0
241B	LONG BEACH	A																																0
256B	POMONA	E																																0
283C	CRYSTAL LAKE	E																			T													T
321-E	PINE CANYON	C																																0
425B-E	SAN GABRIEL DAM	E																					T	T										T
440B	CHILAO	E																																0
455	LANCASTER	E																																0
478	VALYERMO	E																			.03	.03												.06
577F	LOS ANGELES	F																																0
610B	PASADENA	E																																0
634B	SANTA MONICA	D																																0

AUGUST

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E																																0
15	VAN NUYS	B																																0
32C	NEWHALL	C																																0
33A'E	PACOIMA DAM	E																																0
57B-E	OPID'S	E										T																						T
85F	MT. BALDY	B																																0
106C	WHITTIER	E																																0
130B	SANDBERG'S	C																																0
185	GLENDORA	E																																0
241B	LONG BEACH	A																																0
256B	POMONA	E																																0
283C	CRYSTAL LAKE	E																																0
321-E	PINE CANYON	C																																0
425B-E	SAN GABRIEL DAM	E																																0
440B	CHILAO	B																																0
455	LANCASTER	E																																0
478	VALYERMO	E																																0
577F	LOS ANGELES	F																																0
610B	PASADENA	E																																0
634B	SANTA MONICA	D																																0

SEPTEMBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E																															0
15	VAN NUYS	B																															0
32C	NEWHALL	C																															0
33A'E	PACOIMA DAM	E			T												T																T
57B-E	OPID'S	E																															0
85F	MT. BALDY	B			T																T												T
106C	WHITTIER	E																															0
130B	SANDBERG'S	C																															0
185	GLENDORA	E										.03									T												.03
241B	LONG BEACH	A																			T												T
256B	POMONA	E																															0
283C	CRYSTAL LAKE	E										.01									.03												.04
321-E	PINE CANYON	C																															0
425B-E	SAN GABRIEL DAM	E										.03										T											.03
440B	CHILAO	B																															0
455	LANCASTER	E											T																				T
478	VALYERMO	E										.01	.10	.04							.01												.16
577F	LOS ANGELES	F										T									T												T
610B	PASADENA	E																															0
634B	SANTA MONICA	D																															0

LEGEND

A - - - - - - 7:00 A.M. GAGE READING D - - - - - - 4:30 P.M. GAGE READING
B - - - - - - 8:00 A.M. GAGE READING E - - - - - - 5:00 P.M. GAGE READING
C - - - - - - 4:00 P.M. GAGE READING F - - - - - - MIDNITE GAGE READING

DAYLIGHT SAVING TIME - CLOCK ADVANCED ONE HOUR STARTING APRIL 24, 1960

NOTE: FOR SEASON TOTALS SEE TABLE V, PAGE 18.

INDICATES PERIOD OF TOTAL FOLLOWING

*ESTIMATE > 10% OF TOTAL

**ESTIMATE < 10% OF TOTAL

TABLE IV

SEASONAL 1960-61 DAILY RAINFALL FOR SELECTED STATIONS

RAINFALL RECORDS IN INCHES

OCTOBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E																																0
15B	VAN NUYS	B																																0
32C	NEWHALL	C									T																							T
33A'E	PACOIMA DAM	E																																0
57B-E	OPID'S	E				T					.22	.38																						.60
85G	MT. BALDY	B									.04	1.43																						1.47
106D	WHITTIER	E										.12																						.12
130B	SANDBERG'S	C									.02																							.02
185	GLENDORA	E								T	.42	.32																						.74
241B	LONG BEACH	A										T														T								T
256B	POMONA	E										.75																						.75
283C	CRYSTAL LAKE	E									.76	.52																						1.28
321-E	PINE CANYON	C																																0
425B-E	SAN GABRIEL DAM	E									.48	.45																						.93
440B	CHILAO	B										.55																						.55
455B	LANCASTER	E										.15*																						.15*
478	VALYERMO	E									.01																							.01
577F	LOS ANGELES	F			T	T					.01																							.01
610B	PASADENA	E									.07	.04																						.11
634	SANTA MONICA	D																																0

NOVEMBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E			.41		1.01	.77						.96	.05													1.12					4.32
15B	VAN NUYS	B				.25	.08	1.47	.10						.40														.72				3.02
32C	NEWHALL	C			.64	.07	.52	1.49						.31	.42													.76	.02				4.23
33A'E	PACOIMA DAM	E			1.25	.02	.83	1.66						.61	.19	T												.56					5.12
57B-E	OPID'S	E			1.65	.25	.80	2.35						.92	.28													.73	.05				7.03
85G	MT. BALDY	E				1.21	.09	2.05	1.00					1.05		.05													.65				6.10
106D	WHITTIER	E			.47	.09	.41	.36						.23	.15													.88					2.59
130B	SANDBERG'S	C			.62	.13	1.26	1.49							.36													.67	.19				4.72
185	GLENDORA	E			.88	.18	.40	.83						.43	.29													.68	.04				3.73
241B	LONG BEACH	A				.20	T	.28							.16	.15													.52				1.31
256B	POMONA	E			.57	.12	.05	1.02							.23													-	.65				2.64
283C	CRYSTAL LAKE	E			2.58	.45	1.32	2.57	.04					.89	.47													.81	.01				9.14
321-E	PINE CANYON	C			.71	.16	.33	1.50	.26					.50	.10												.50						4.00
425B-E	SAN GABRIEL DAM	E			1.37	.19	.50	.95	.02					.87	1.35													.79	.01				6.05
440B	CHILAO	B				1.95	.14	2.45	.22						.55	.01													.80				6.12
455B	LANCASTER	E			-	.04	-	.45						-	.11													-	.44				1.04
478	VALYERMO	E			.66		.24	1.07						.09														.33					2.39
577F	LOS ANGELES	F			.55		.56	.40						.49	T	T												.60					2.40
610B	PASADENA	E			.62	.12	.40	1.17	.04					.45	.37													.83	.07				4.07
634C	SANTA MONICA	D			.30		1.55	.91						-	.30													-	.67				3.73

DECEMBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E		.17																														.17
15B	VAN NUYS	E		.10																														.10
32C	NEWHALL	C		.06																														.06
33A'E	PACOIMA DAM	E		.26																														.26
57B-E	OPID'S	E		.50																														.50
85G	MT. BALDY	B		.32						.06																								.38
106D	WHITTIER	E		.08																														.08
130B	SANDBERG'S	C	.03	.08																														.11
185	GLENDORA	E		.10							T																							.10
241B	LONG BEACH	A		.13																														.13
256B	POMONA	E		.10							T																							.10
283C	CRYSTAL LAKE	E		.53					.01	.01																								.55
321-E	PINE CANYON	C		.31	.19																													.50
425B-E	SAN GABRIEL DAM	E		.21						T	T																							.21
440B	CHILAO	B		.29																														.29
455B	LANCASTER	E		.02																														.02
478	VALYERMO	E		.03						.01																								.04
577F	LOS ANGELES	F	.08	.07						T																								.15
610B	PASADENA	E		.16																														.16
634C	SANTA MONICA	D		.15																														.15

JANUARY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E																									.57	2.25						2.82
15B	VAN NUYS	B																									.13	1.08	.48					1.69
32C	NEWHALL	C																									.10	1.48	.02					1.60
33A'E	PACOIMA DAM	E																									.27	1.12						1.39
57B-E	OPID'S	E																									.21	3.45	.04					3.70
85G	MT. BALDY	E																									.01	.77	1.78					2.56
106D	WHITTIER	E																									.01	1.36						1.37
130B	SANDBERG'S	C																								.04	1.52					.01		1.57
185	GLENDORA	E																									.02	1.50	.05					1.57
241B	LONG BEACH	A																				T					.12	.81	.33					1.26
256B	POMONA	E																									.08	.93						1.01
283C	CRYSTAL LAKE	E																									.05	2.49	.10					2.64
321-E	PINE CANYON	C																									.08	1.09						1.17
425B-E	SAN GABRIEL DAM	E																									T	2.18	.08				T	2.26
440B	CHILAO	B																									.03	1.10	1.11					2.24
455B	LANCASTER	E																										.32						.32
478	VALYERMO	E																										.26						.26
577F	LOS ANGELES	F																				T				T	.24	1.04						1.28
610B	PASADENA	E																									.08	1.43						1.51
634C	SANTA MONICA	D																									.19	1.22	.22					1.63

SEASONAL 1960-61 DAILY RAINFALL FOR SELECTED STATIONS

RAINFALL RECORDS IN INCHES

FEBRUARY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	TOTAL
6	TOPANGA	E																													0
15B	VAN NUYS	B																.01													.01
32C	NEWHALL	C																													0
33A'E	PACOIMA DAM	E												.01				.02													.03
57B-E	OPID'S	E											T					T													T
85G	MT. BALDY	B																													0
106D	WHITTIER	E																													0
130B	SANDBERG'S	C		T	.46				.53									.03													1.02
185	GLENDORA	E												T																	T
241B	LONG BEACH	A									T																				T
256B	POMONA	E																													0
283C	CRYSTAL LAKE	E																													0
321-E	PINE CANYON	C																													0
425B-E	SAN GABRIEL DAM	E																													0
440B	CHILAO	B								T				T																	T
455B	LANCASTER	E												T																	T
478	VALYERMO	E																T													T
577F	LOS ANGELES	F								T			T					.15													.15
610B	PASADENA	E												T																	T
634C	SANTA MONICA	D																													0

MARCH

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E															.62										.10			.02				.74
15B	VAN NUYS	B					T										.25	.05									.03							.33
32C	NEWHALL	C															.62	.03																.65
33A'E	PACOIMA DAM	E															.51		T								.07			.03	T			.61
57B-E	OPID'S	E				T											.73		T								.47			.01				1.21
85G	MT. BALDY	B					.20										.40										.78				.05			1.43
106D	WHITTIER	E															.28		.02								.04			.17				.51
130E	SANDBERG'S	C					.04	.05									.58	.13	.06							.05	.10		.04	.31				1.36
185	GLENDORA	E				.06											.45									.05	.45			.10	.02		T	1.13
241B	LONG BEACH	A					.01	T									.20	.02		T							.10			.01	T			.34
256B	POMONA	E															.41		T							T	.24							.65
283C	CRYSTAL LAKE	E				.05											.52									.11	.60			.02	.01			1.31
321-E	PINE CANYON	C															.53										.04			.23				.80
425B-E	SAN GABRIEL DAM	E				.21											.50		T							.01	.62			.15	.04			1.53
440B	CHILAO	B					T										.18	.10	.01	.02							.19			.10	.01			.61
455B	LANCASTER	E				T											.13										.13			.14				.40
478	VALYERMO	E															.06													.43				.49
577F	LOS ANGELES	F				T											.40		T							.09			.03	.05			.57
610B	PASADENA	E				.02											.57	.02									.09			.17	T			.88
634C	SANTA MONICA	D															.45										.11							.56

APRIL

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E						.07																.31									.38
15B	VAN NUYS	B						.25																.07	.28								.60
32C	NEWHALL	C						.12																.16									.28
33A'E	PACOIMA DAM	E						.24	T															.27									.51
57B-E	OPID'S	E						.03	T												T			.57	T								.60
85G	MT BALDY	B																						.05*	.35*								.40*
106D	WHITTIER	E							.01															.27									.28
130B	SANDBERG'S	C						.03	.23															-	.17								.43
185	GLENDORA	E						.09	T													T		.18									.27
241E	LONG BEACH	A					T	.04	T	T														T	.08								.12
256B	POMONA	E						.01																.25									.26
283C	CRYSTAL LAKE	E						.01																.19									.20
321-E	PINE CANYON	C						T	.06															.25									.31
425B-E	SAN GABRIEL DAM	E						.05				T												.48									.53
440B	CHILAO	B						.01	T															.05	.07	.02							.15
455B	LANCASTER	E																						T									T
478	VALYERMO	E																						T		.01							.01
577F	LOS ANCELES	F					T	T	T												T			.29									.29
610B	PASADENA	E						.16	T													.01		.28									.45
634C	SANTA MONICA	D																						.17									.17

MAY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E							T																							.02	.02
15B	VAN NUYS	B																														T	T
32C	NEWHALL	C																			.08												.08
33A'E	PACOIMA DAM	E				.06															T											.04	.10
57B-E	OPID'S	E																														.05	.05
85G	MT BALDY	B							T																								T
106D	WHITTIER	E																															0
130B	SANDBERG'S	C							.13					.11							.23											.03	.50
185	GLENDORA	E			.07	.05							T																	T			.12
241B	LONG BEACH	A				T			T													T										T	T
256B	POMONA	E																														T	T
283C	CRYSTAL LAKE	E			-	.04																											.04
321E	PINE CANYON	C																			T										.02		.02
425B-E	SAN GABRIEL DAM	E			.03																									.02			.05
440B	CHILAO	B																															0
455B	LANCASTER	E																															0
478	VALYERMO	E																															0
577F	LOS ANGELES	F				T															T									T		T	T
610B	PASADENA	E				T																			T								T
634C	SANTA MONICA	D																														T	T

SEASONAL 1960-61 DAILY RAINFALL FOR SELECTED STATIONS

RAINFALL RECORDS IN INCHES

JUNE

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E																															0
15B	VAN NUYS	B																															0
32C	NEWHALL	C																															0
33A'E	PACOIMA DAM	E																															0
57B-E	OPID'S	E																															0
85G	MT. BALDY	B																															0
106D	WHITTIER	E	.02																														.02
130B	SANDBERG'S	C																								T							T
185	GLENDORA	E																															0
241B	LONG BEACH	A	.02																														.02
256B	POMONA	E																															0
283C	CRYSTAL LAKE	E																															0
321-E	PINE CANYON	C																															0
425B-E	SAN GABRIEL DAM	E	T																														T
440B	CHILAO	B																															0
455B	LANCASTER	E																															0
478E	VALYERMO	E																															0
577F	LOS ANGELES	F	T				T			T																							T
610B	PASADENA	E																															0
634C	SANTA MONICA	D																															0

JULY

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E																																0
15B	VAN NUYS	B																																0
32C	NEWHALL	C			.06																													.06
33A'E	PACOIMA DAM	E			.01																		T											.01
57B-E	OPID'S	E												T																				T
85G	MT BALDY	B																																0
106D	WHITTIER	E												T																				T
130B	SANDBERG'S	C																																0
185	GLENDORA	E		T																														T
241B	LONG BEACH	A																																0
256B	POMONA	E																																0
283C	CRYSTAL LAKE	E																																0
321-E	PINE CANYON	C																																0
425B-E	SAN GABRIEL DAM	E			T									T																				T
440B	CHILAO	B																																0
455B	LANCASTER	E																																0
478	VALYERMO	E																																0
577F	LOS ANGELES	F		T	T									T																				T
610B	PASADENA	E																																0
634C	SANTA MONICA	D												T																				T

AUGUST

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL
6	TOPANGA	E										T	.42																					.42
15B	VAN NUYS	B				.02							.47																					.49
32C	NEWHALL	C																																0
33A'E	PACOIMA DAM	E				.02							.55								.01													.58
57B-E	OPID'S	E				.16						T									T	.10												.26
85G	MT. BALDY	B				.15	.13														.27													.55
106D	WHITTIER	E				.01							.02								.03													.06
130B	SANDBERG'S	C				T		T					.93								T				.07	.08								1.08
185	GLENDORA	E			T							.02*	T							T														.02*
241B	LONG BEACH	A																																0
256B	POMONA	E				.04							T							T														.04
283C	CRYSTAL LAKE	E				.54	.06														.33			.07										1.00
321-E	PINE CANYON	C				.22	.06						.05											.03											.36
425B-E	SAN GABRIEL DAM	E				T						T									.01			T										.01
440B	CHILAO	B				.31	.24																.27											.82
455B	LANCASTER	E					T																			T								T
478	VALYERMO	E				.11	.27													.02	T	T	.23	.29										.92
577F	LOS ANGELES	F			T	T					T	T	.02							.01														.03
610B	PASADENA	E				.01							.05																					.06
634C	SANTA MONICA	D										T	.26																					.26

SEPTEMBER

STA. NO.	STATION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	TOTAL
6	TOPANGA	E																.09	T														.09
15B	VAN NUYS	B																.02															.02
32C	NEWHALL	C																	.09														.09
33A'E	PACOIMA DAM	E																.03	.10														.13
57B-E	OPID'S	E																					T										T
85G	MT. BALDY	B																						T									T
106D	WHITTIER	E																T															T
130B	SANDBERG'S	C																															0
185	GLENDORA	E																T					T										T
241B	LONG BEACH	A																															0
256B	POMONA	E																															0
283C	CRYSTAL LAKE	E																															0
321-E	PINE CANYON	C																															0
425B-E	SAN GABRIEL DAM	E																	T														T
440B	CHILAO	B																															0
455B	LANCASTER	E																															0
478	VALYERMO	E																															0
577F	LOS ANGELES	F															T	.01					.04	T									.05
610B	PASADENA	E																.02	.02														.04
634C	SANTA MONICA	D															T																T

LEGEND

A - - - - - - 7:00 A.M. GAGE READING
B - - - - - - 8:00 A.M. GAGE READING
C - - - - - - 4:00 P.M. GAGE READING
D - - - - - - 4:30 P.M. GAGE READING
E - - - - - - 5:00 P.M. GAGE READING
F - - - - - - MIDNITE GAGE READING

DAYLIGHT SAVING TIME - CLOCK ADVANCED ONE HOUR STARTING APRIL 30, 1961

NOTE: FOR SEASON TOTALS SEE TABLE VI, PAGE 23.

– INDICATES PERIOD OF TOTAL FOLLOWING

*ESTIMATE > 10% OF TOTAL

**ESTIMATE < 10% OF TOTAL

TABLE V

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1959-60

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
2B	ESCONDIDO CANYON	.02	.02	1.59	3.60	4.38	.59	1.75	0	0	0	0	0	11.95
3B	SEMINOLE HOT SPRINGS	.10	.04	2.36	4.73	3.05	.22	2.63	0	0	0	0	0	13.13
5B	CALABASAS	.14	0	1.78	4.05	2.36	.22	1.68	0	0	0	0	0	10.23
6	TOPANGA PATROL STATION	.07	0	1.75	6.02	3.58	.30	4.14	0	0	0	0	0	15.86
9B	LINDOMAR NURSERY - SEPULVEDA AND RAYEN	.09	0	1.41	2.91	2.78	.41	1.55	0	0	0	0	0	9.15
10	BEL AIR HOTEL	0	0	1.52	4.46	2.56	.26	2.50	0	0	0	0	0	11.30
11C	UPPER FRANKLIN CANYON RESERVOIR	0	T	1.60	4.09	2.44	.25	2.56	.02	0	0	0	0	10.96
12	FRANKLIN CANYON - MULHOLLAND HIGHWAY	0	0	1.85	5.38	2.30	.25	2.20	0	0	0	0	0	11.98
13B	NORTH HOLLYWOOD - BLIX	.36	0	1.24	3.22	1.85	.20	2.05	0	0	0	0	0	8.92
14B	ROSCOE-MERRILL	T	T	1.43	2.45	1.96	.50	1.10	T	0	0	0	T	7.44
15	VAN NUYS - CITY WAREHOUSE	.23	0	1.55	2.87	1.93	.24	1.81	T	0	0	0	0	8.63
17	SEPULVEDA CANYON AND MULHOLLAND HIGHWAY	.02	0	1.88	4.75**	2.16	0	2.75	0	0	0	0	0	11.56**
18D	EL CABALLERO COUNTRY CLUB	.01	0	1.82	3.84	1.80	.16*	2.19	0	0	0	0	0	9.82**
20B	GIRARD RESERVOIR	0	T	1.72	4.10	2.04	.18	1.97	0	0	0	0	0	10.01
21	BRANT RANCHO - GIRARD	.02*	.01*	1.22	3.62	2.18*	.23*	1.72*	0	0	0	0	0	9.00*
23-E	CHATSWORTH RESERVOIR	.13	T	1.50	4.30	2.97	.42	1.46	0	0	0	0	0	10.78
24D	CHATSWORTH	.23	0	1.36	4.05	3.23	.41	2.02	0	0	0	0	0	11.30
25B	NORTHRIDGE - ANDREWS	0	.01	1.53	3.46	2.90	.28	1.40	0	0	0	0	0	9.58
27B	PACOIMA - RADDATZ RANCH	.24	0	1.47	2.68	2.49	.42	1.25	0	0	0	0	0	8.55
28D	SAN FERNANDO LEMON ASSOCIATION	.09	0	1.38	2.81	2.86	.59	1.14	0	0	0	0	0	8.87
29B	GRANADA PUMP PLANT	0	T	1.32	3.52	3.75	.89	1.73	0	0	0	0	0	11.21
30B	SYLMAR	0	0	.98	3.11	3.24	.99	1.51	0	0	0	0	0	9.83
31	ORCUTT RANCH	0	0	1.97	5.49	5.01	1.26	3.75	0	0	0	0	0	17.48
32C	NEWHALL-SOLEDAD DIVISION HEADQUARTERS	0	0	1.43	3.55	1.88	.17	1.75	0	0	0	0	0	8.78
33A-E	PACOIMA DAM	.03	T	1.36	3.10	2.52	1.01	1.62	T	0	0	0	T	9.64
39B	SUNSET DAM	.07	0	1.55	3.08	2.11	.45	1.58	.05	.02	0	0	0	8.91
42B	REDONDO CITY HALL	0	.02	1.56	3.05	2.74	.16	.75	0	0	0	0	0	8.28
43B	PALOS VERDES GOLF CLUB	0	0	1.82	3.94	3.25	.31*	1.41	0	.02*	0	0	0	10.75**
43D	PALOS VERDES ESTATES	.06	T	1.65	3.18	2.61	.34	1.02	0	.02	0	0	0	8.88
44	POINT VICENTE LIGHTHOUSE	.04	.05	1.17	2.37	2.71	.23	1.02	.01	T	0	0	T	7.60
46D-E	BIG TUJUNGA DAM	.05	T	1.41	3.82	2.10	.48	2.04	.01	0	0	0	T	9.91
47D	CLEAR CREEK - CITY SCHOOL	0	.05	1.46	4.27	3.26	.93	2.33	.09	0	T	T	.01	12.40
48B	OAK WILDE	0	0	1.20	2.12	2.04	.67	1.17	.20	0	0	0	0	7.40
50B	LA CANADA - ARROYO SECO	.02	0	1.39	3.21	2.81	.44	1.67	.02	0	0	0	0	9.56
51	FALLING SPRINGS	.09	.65	2.27	4.71	3.43	1.01	3.57	.44	T	T	T	.05	16.22
52B	SWITZER'S CAMP	.12	.07	2.03	3.68	3.06	0.52	1.84	.11	0	0	0	.01	11.44
52C	WATERMAN GUARD STATION	0	0	2.06	3.62	3.11	1.12	2.26	.02	0	0	0	.01*	12.20**
53D	COLBY'S	.02	.08	2.61	3.67	2.44	.55	2.31	T	0	0	0	T	11.68
54C	LOOMIS RANCH - ALDER CREEK	0	.47	1.93	2.82	2.00	.60	.87	0	0	0	0	0	8.69
57B-E	OPID'S (CAMP HI-HILL)	.10	.02	2.91	6.27	3.27	1.08	3.25	T	0	0	T	0	16.90
58	STURTEVANT CAMP	.38	.03	1.78	5.20	4.34	1.66	2.93	.25	0	0	0	0	16.57
60A	HOEGEE'S	.31	.04	2.14	5.06	4.59	1.63	3.16	.27	0	0	0	0	17.20
63B-E	BIG SANTA ANITA DAM	.17	.01	1.66	3.11	3.29	1.84	2.99	.21	T	0	0	0	13.28
66	SIERRA MADRE - PEGLAR RANCH	.06	.02	1.64	2.99	2.90	1.42	2.80	.08	0	0	0	0	11.91
67D	MONROVIA - NEWS POST	.05	.04	1.67	3.54	2.41	1.36	2.95	.09	0	0	0	0	12.11
68B	SAWPIT DAM	.17	.02	1.87	3.71	3.46	1.61	2.95	.21	.02	0	0	0	14.02
69B	SAWPIT CANYON	.23	.03	2.06	4.00	3.76	1.96	3.52	.29	T	0	0	0	15.85
70D	ROGER'S CANYON	0	.04	2.09	3.97	3.43	1.43	2.43	.14	.01	0	0	0	13.54
73	GLENDORA - ENGLEWILD RANCH	.08	0	2.03	3.53	3.41	1.05	2.37	.17	0	0	0	T	12.64
76B	SAN GABRIEL DAM CAMP	.06	.11	1.97	4.68	3.55	.83	3.28	.08	T	T	0	T	14.56
80B	PRAIRIE FORK	.42	1.48	2.69	5.20	2.65	.60	3.20	0	.01	.13	0	1.02	17.60
81B	VINCENT GAP	.52	1.04	2.06	5.93	2.96	1.15	2.58	0	.46	.31	0	0	17.01
82D	TABLE MOUNTAIN	.32	.44	1.81	3.39	2.00	.22	2.63	T	T	0	0	1.41	12.22
83B	BIG PINES RECREATION PARK	.43	1.26	2.28	4.42	2.40	.51	2.72	T	.01	.13	0	1.05	15.21
85G	MT. BALDY GUARD STATION	.43	1.32	3.38	4.40	3.16	1.10	3.46	.15	0	0	0	T	17.40
87	SAN DIMAS GUARD STATION	.16	0	1.79	4.11	3.65	.75	2.84	.12	0	0	0	0	13.42
89B-E	SAN DIMAS DAM	.05	.09	2.31	3.21	3.50	.81	2.33	.19	T	0	0	T	12.49
90	ELDER RANCH	T	.05	2.26	3.25	3.49	.88	2.31	.20	0	0	0	0	12.44
91	INDIAN HILL - CLAREMONT	0	.11	2.01	2.32	3.09	.68	1.64	.36	0	0	0	0	10.21
92	CLAREMONT - POMONA COLLEGE	.02	.10	1.91	2.13	3.05	.71	1.32	.14	0	0	0	0	9.38
93B	CLAREMONT FIRE STATION	0	.13	1.83	2.15	3.14	.77	1.39	.14	0	0	0	0	9.55
95	SAN DIMAS FIRE WARDEN	.06	.10	1.47	3.26	2.63	.74	1.91	.17	.01	0	0	0	10.35
96B-E	PUDDINGSTONE DAM	.02	.10	1.78	3.18	2.63	.63	1.73	.11	0	0	0	0	10.18
98	AZUSA-HIBSCH	.01	0	.66	4.61	2.60*	1.00	1.91	0	0	0	0	0	10.79*
99B	AZUSA - FOOTHILL RANCH	0	.08	2.20	3.19	2.79	.89	2.02	.07	0	0	0	0	11.24
101B	WEST COVINA - HURST RANCH	0	.13	1.82	2.82	2.14	.62	2.26	.02	0	0	0	0	9.81
102B	WALNUT - PATROL STATION	0	.09	1.71	3.17	2.60	.69	1.59	.13	0	0	0	0	9.98
104	NO. WHITTIER - COLE RANCH	0	.08	2.09	3.12	3.15	.54	2.39	0	0	0	0	0	11.37
106C	WHITTIER CITY HALL	0	.07	1.44	2.54	2.60	.42	2.02	.11	0	0	0	0	9.20
107C	DOWNEY - FIRE DEPARTMENT	0	.03	1.32	2.70	3.28	.41	2.00	.10	0	0	0	0	9.84
108C	EL MONTE FIRE STATION	T	.16	1.83	4.04	2.24	.82	2.40	T	T	0	0	.01	11.50
109D	WEST ARCADIA	T	0	1.54	3.10	2.30	.65	2.64	.06	0	0	0	0	10.29
110	ALHAMBRA - CITY HALL	T	.10	1.66	4.02	2.28	.75	2.85	T	T	0	0	T	11.66
111	SOUTH PASADENA - CITY HALL	T	.03	1.60	4.18	2.06	.49	1.78	T	0	0	0	0	10.14
116D	INGLEWOOD - FIRE STATION	.01	.06	1.15	3.19	2.83	.29	2.23	0	0	0	0	0	9.76
117F	COMPTON - FIRE STATION	0	.04	1.54	2.23	3.08	.30	1.83	0	0	0	0	0	9.02
118C	WILMINGTON	0	.05	1.64	3.64	2.84	.30	1.06	.03	0	0	0	0	9.56
119D	SAWTELLE - SOLDIER'S HOME	0	.02	1.32	4.19	2.92	.34	2.90	0	0	0	0	0	11.69
120	VINCENT PATROL STATION	T	0	1.09	1.32	.84	.03	.18	0	0	0	0	.16	3.62
122D	LEONIS VALLEY - RITTER RANCH	.01	0	1.62	2.31	1.49	.18	1.58	T	0	0	0	0	7.19
124B	BOUQUET CANYON RESERVOIR	0	0	1.45	3.20	1.54	.39	1.66	.05	0	0	0	0	8.29
125	SAN FRANCISQUITO CANYON - POWER HOUSE NO. 1 (SAUGUS)	.02	0	1.11	3.74	2.27	.86	2.49	.02	0	0	0	0	10.51
126B	VENICE - FIRE STATION	T	.05	1.28	3.34	2.76	.36	1.45	0	0	0	0	0	9.24
127	DRY CANYON RESERVOIR	0	0	1.04	3.15	2.05	.48	1.33	T	0	0	0	0	8.05
128B	ELIZABETH LAKE CANYON	.10	0	1.05	4.44	3.70	1.07	2.95	T	0	T	0	0	13.31
130B	SANDBERG'S QUAIL LAKE PATROL STATION	0	0	1.68	3.24	.76	.08	1.31	0	0	0	0	0	7.07
134	SAN DIMAS - STEVENS	.09	.12	2.26	3.51*	3.12	.82	1.96	.21	0	0	0	0	12.09**
135	NORWALK	0	.11	1.51	2.82	3.07	.37	1.97	.12	0	0	0	0	9.97
136B	HOLLYWOOD - CITY ENGINEER	.02	.08	1.37	3.42	2.04	.29	1.87	.05	0	0	0	0	9.14
139B	LOS ANGELES WATER DEPARTMENT	0	.08	1.14	3.50	2.23	.57	1.72	.05	0	0	0	0	9.29
140B	SAWTELLE	0	0	1.25	3.77	2.62	.25	2.50	0	0	0	0	0	10.39
143B	AZUSA - CITY PARK	.02	.05	2.16	3.21	2.63	1.04	1.95	.12	0	0	0	T	11.18
144	SIERRA MADRE DAM	.17	.05	1.74	3.50	2.73	1.74	2.53	.27	0	0	0	0	12.73
155B	LITTLE ROCK CREEK	0	.09	1.03	1.43	1.02	0	.20	0	0	T	0	.10	3.87
156	LA MIRADA - STANDARD OIL CO.	0	.05	1.61	2.35	2.84	.43	1.18	.15	0	0	T	0	8.61
157B	EL SEGUNDO - STANDARD OIL CO.	.01	.03	1.31	2.87	3.31	.24	1.25	0	0	0	0	0	9.02
158	TANBARK FLATS	.11	.13	2.45	3.81	3.38	.76	3.03	.25	T	T	T	.01	13.93
167B	ARCADIA PUMPING PLANT NO. 4	0	.05	1.68	2.63	2.87	1.36	2.65	0	0	0	0	0	11.24
169-E	SIERRA MADRE PUMPING PLANT	.07	.03	1.61	3.01	2.55	1.61	2.68	.09	0	0	0	0	11.65
170C	POTRERO HEIGHTS	0	.07	1.03**	3.36	2.35	.69	2.07	.03	0	0	0	0	9.60**
171B	CHAPMAN WELLS	.01	.01	1.72	3.24	2.51	1.14	2.53	.05	0	0	0	0	11.21
172B	DUARTE	0	.05	1.90	3.40	2.87	1.06	2.02	.12	0	0	0	0	11.42
174	GLENDORA - WARREN	.07	.08	2.17	3.08	3.04	.78	2.21	.14*	.02	0	0	.02*	11.61**
175B	LA CANADA IRRIGATION DISTRICT	.10	T	1.06	3.35	2.56	.99	1.62	0	0	0	0	0	9.68
176	ALTADENA - RUBIO CANYON	T	T	1.62	3.02	2.64	.80	2.04	.05	T	0	0	0	10.17
177F	LA CANADA - AP ROBERTS	.04	0	1.49	3.61	2.96	.67	1.76	.02	0	0	0	0	10.55
179G	BAILEY DEBRIS DAM	.10	.02	1.80	3.52	2.68	1.43	2.18	.19	0	0	0	0	11.92
181B	BASSETT - CLIFFORD	0	.07	1.78	3.37	2.59	.57	1.97	T	.07	0	0	0	10.42
185	GLENDORA - WEST	.08	.07	1.97	3.12	2.94	.91	2.26	.08	.03	0	0	.03	11.49
188C	SAN DIMAS - MORRISON	.07	.11	2.00	3.38	2.87	.73	1.98	.22	0	0	0	0	11.36

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1959-1960

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
191B	LOS ANGELES - ALCAZAR	T	.08	1.34	3.46	2.23	.48	1.76	.02	0	0	0	.01	9.38
192C	BELL FIRE STATION	0	.08	1.27	3.18	2.76	.54	2.02	.10	0	0	0	0	9.95
193	COVINA NO. 2 - TEMPLE	T	.12	2.14	3.00	2.68	.64	1.77	.07	0	0	0	0	10.42
196B	LA VERNE - POLICE DEPARTMENT	.05	.09	.99	2.61	2.79	.66	1.57	.11	0	0	0	0	8.87
198B	BRAND DEBRIS BASIN	.08	0	1.46	2.68	2.00	.41	1.52	.05	.02	0	0	0	8.22
199C	HUNTINGTON PARK - CITY YARD	0	.05	1.23	3.42	2.71	.35	2.01	.06	0	0	0	0	9.83
200	SAUGUS - S.C.E. CO. SUBSTATION	.06	0	1.39	2.50	1.61	.18	1.11	0	0	0	0	0	6.85
201	PUENTE HILLS - ALTA MIRA RANCH	0	.11	1.88	2.76	3.14	.60	2.03	.10	0	0	0	0	10.62
206	VALENCIA HEIGHTS	.01	.08	1.96	2.91	2.60	.50	1.82	.02	0	0	0	0	9.90
208B	ARTESIA	0	.05	1.89	2.47	3.53	.34	1.35	.18	0	0	0	0	9.81
210B	BRAND PARK	.06	0	1.68	3.41	2.42	.38	1.83	.03	0	0	0	0	9.81
213D	LOS ANGELES - HANCOCK PARK	T	.09	1.33	3.44	2.27	.24	1.92	0	0	0	0	0	9.29
215D	BELLFLOWER-PRESS TELEGRAM	0	.04	1.60	2.25	3.21	.31*	1.54	.15	0	0	0	0	9.10**
216	GLENDALE - JONES	.02	0	1.46	3.02	2.01	.33	1.53	.02	0	0	0	.03	8.42
219	PACOIMA WHSE. - CO. FORESTRY	0	0	1.45	2.40	2.09	.44	1.14	0	0	0	0	0	7.52
221F	PACOIMA WASH-DUCKWORTH RANCH	0	0	1.57	2.94*	2.73*	.76*	1.36	0	0	0	0	0	9.36*
222C	LANKERSHIM PUMPING PLANT	.32	T	1.43	2.50	1.96	.22	1.43	0	0	0	0	0	7.86
223B-E	BIG DALTON DAM	.12	.09	2.42	4.36	3.67	1.08	2.49	.27	.01	0	0	T	14.51
224B	LONG BEACH - ALAMITOS LAND CO.	0	.04	1.80	2.33	2.98	.25	1.16	0	0	0	0	0	8.56
225	MONTANA RANCH	0	.05	2.13	2.25	3.51	.22	1.43	.17	0	0	0	0	9.76
226B	BURBANK FIRE STATION	.01	0	1.40	2.54	1.88	.37	1.74	.01	T	T	0	0	7.95
227D	SAN GABRIEL - BRUINGTON	0	.05	1.55**	3.31	1.60	1.26	2.66	0	0	0	0	0	10.43**
228B	BEVERLY HILLS - CITY HALL	T	.04	1.59	4.11	2.51	.25	2.56	T	0	0	0	0	11.06
230D	CLAREMONT - ELDER	.05	.10	2.08	2.45	3.52	.76	1.35	.52	0	0	0	0	10.83
235B	HENNIGER FLATS	.25	.04	2.00	3.60	3.12	1.26	2.32	.50	.02	0	0	0	13.11
236B	SAN FERNANDO - MOLLIN GROVES	0	0	1.30	3.01	1.84	.99	1.49	0	0	0	0	0	8.63
237C	STONE CANYON RESERVOIR	0	T	1.61	4.57	2.95	.35	2.65	0	T	0	0	0	12.13
238	HOLLYWOOD DAM	.02	.02	1.38	3.63	2.16	.37	1.65	.03	0	0	0	0	9.26
241B	LONG BEACH - VETERAN'S MEMORIAL BUILDING	T	.02	1.52	2.34	2.97	.17	1.21	.09	T	0	0	T	8.32
246B	CULVER CITY - BUS YARD	0	.08	1.39	3.13	2.59	.35	1.81	T	0	0	0	0	9.35
250D	ACTON CAMP	.02	0	.59	1.03	.85	0	.48	0	0	0	0	0	2.97
251	LA CRESCENTA	T	0	1.52	3.46	2.82	.57	1.87	.02	0	0	0	0	10.26
254B	PUENTE - ROWLAND RANCH	.32*	.10*	1.70	3.05	2.57	.85	1.97	.05*	0	0	0	0	10.61**
255C	MOUNT SAN ANTONIO COLLEGE - SPADRA	.01	.10	2.15	3.33	2.79	.84	1.69	.07	T	0	0	T	10.98
256B	POMONA - FIRE STATION	T	.15	1.64	2.63	2.88	.80	1.43	.08	0	0	0	0	9.61
257	GRIFFITH PARK NURSERY	.04	.02	1.48	3.49	2.23	.39	1.65	.06	0	0	0	0	9.36
258a	GRIFFITH PARK TUNNEL	.07	0	1.05	3.58	2.26	.44*	1.60	.05	0	0	0	0	9.05**
258b	GRIFFITH PARK - SO. SLOPE, MOUNT HOLLYWOOD	.09	.05*	1.02	3.78	2.39	.44	1.94	.11	0	0	0	0	9.82**
258c	GRIFFITH PARK - NO. SLOPE, MOUNT HOLLYWOOD	.10	.06*	1.19	4.13	2.39	.40	1.88	.07	0	0	0	0	10.22**
259C	CHATSWORTH PATROL STATION	.61	T	1.44	4.16	3.46	.74	2.92	0	0	0	0	0	13.33
261B-E	ACTON - ESCONDIDO CANYON	0	.04	.99	1.55	.97	.14	.41	T	0	0	0	0	4.10
263F	POMONA - RIVERA	0	0	1.60	2.73	2.86*	.58	1.68	0	0	0	0	0	9.45*
265D	PUENTE HILLS - WEISEL RANCH	0	.12	1.51	3.13	2.76	.53	1.46	0	0	0	0	T	9.51
266C	EAST WHITTIER	0	.10	1.50	2.76	2.84	.38	1.86	.12	0	0	0	0	9.56
269B	DIAMOND BAR RANCH HORSE CAMP	0	.07	1.82	3.38	2.83	.68	1.53	.09	0	0	0	0	10.40
270C	COUNTY FARM - RANCHO LOS AMIGOS	0	.03	1.45	2.47	3.04	.37	1.84	.09	0	0	0	0	9.29
272D	L.A. - HEADWORKS PUMPING PLANT	.01	0	1.89	3.32*	1.93	.35	1.86	T	0	0	0	1	9.36*
273D	SAN PEDRO HILLS - MC CARRELL	0	0	1.96	4.03	3.63	.53	1.55	0	0	0	0	0	11.70
274B	ACTON - HUBBARD	0	0	.86	1.38	.94	.02	.25	0	0	0	0	0	3.45
275	SAN MARINO HUNTINGTON LIBRARY	0	.03	1.75	3.48	2.20	.97	1.92	.02	T	0	0	T	10.37
277	SAWMILL MOUNTAIN RANCH	0	0	2.17	4.17	1.82	.28	2.59	.05	0	0	0	0	11.08
278B	LOS ANGELES - CLARK MEMORIAL LIBRARY	0	0	1.23	3.05	2.14	.23	1.90	0	0	0	0	0	8.55
280B	FLINTRIDGE FIRE STATION	.01	0	1.59	3.60	2.82	.75	1.63	.02	0	0	0	0	10.42
283C	CRYSTAL LAKE	.21	1.20	2.53	6.16	3.49	.87	3.30	.09	0	T	0	.04	17.89
284G	PLACERITA CANYON	0	0	1.54	4.24	1.89	.27	1.84	0	0	0	0	0	9.78
285C	MOUNT ST. MARY'S COLLEGE	0	0	2.11	5.21	3.34	.28	2.90	0	0	0	0	0	13.84
287	GLENDORA - MUTUAL CONSOLIDATED IRRIGATION CO.	.06	.06	2.04	3.19	2.88	.91	2.31	.05	T	0	0	.03	11.53
289	LAGUNA - BELL S.C.E. CO. SUBSTATION	0	.05	1.42	2.86	2.61	.42	2.10	.10	0	0	0	0	9.56
290B	MONTEREY PARK - FIRE STA.	0	.05	1.56	3.55	2.29	.54*	1.83	.02	0	0	0	0	9.84**
291	L.A. - 96TH AND CENTRAL	0	0	1.25	3.43**	3.45	.34	1.97	0	0	0	0	0	10.44**
292B-E	ENCINO RESERVOIR	.04	T	1.96	4.14	1.88	.15	2.76	0	0	0	0	0	10.93
293-E	VAN NORMAN LAKE - LOWER DAM	.03	0	1.31	3.25	3.31	.93	1.45	T	0	0	0	0	10.28
294B	SIERRA MADRE - MIRA MONTE PUMPING PLANT	.07	.04	1.83	3.40	2.72	1.74	2.66	.16	0	0	0	0	12.62
295G	GLENDALE - STAPENHORST	.01	.02	1.56	2.98	2.05	.39	1.43	.01	0	0	0	0	8.45
298B	GORMAN	0	.42	2.08	3.76	1.41	.10	.80	0	0	0	0	0	8.57
299D	LITTLE ROCK	0	.02	.94	.87	1.04	0	.11	T	0	.06	0	.08	3.12
303F	PASADENA - CAL TECH	0	.02	1.73	3.48	2.23	.55	1.98	.01	T	0	0	T	10.00
304	SAWPIT CANYON - DEER PARK	.24	.04	2.30	4.94	4.23	2.34	3.60	.43	T	0	0	0	18.12
306D	TRANCAS BEACH	0	0	1.32	3.42*	3.92	.32	1.04	0	0	0	0	0	10.02**
311b	PASADENA METEOROLOGICAL STATION	T	.04	1.62	3.03	2.40	.64	1.65	.01	T	0	0	0	9.39
312	AZUSA PLANT - GLENDORA IRRIGATION CO.	0	0	2.04	3.95	2.77	1.10	1.84	.10	0	0	0	0	11.80
318a	JACKSON LAKE - BIG PINES	.25	.54	2.52	4.45	1.83	.26	1.88	T	T	0	0	.31	12.04
321-E	PINE CANYON PATROL STATION	0	0	1.70	3.74	2.08	.46	2.98	.08	0	0	0	0	11.04
322	MUNZ VALLEY RANCH	0	0	1.29	1.93	1.20	.50	.80	0	0	0	0	0	5.72
334B-E	COGSWELL DAM	.03	.10	2.43	5.24	3.65	1.03	3.27	.02	0	.02	T	T	15.79
336-E	SILVER LAKE RESERVOIR	.04	.04	1.34	3.42	1.86	.43	1.44	.04	T	0	0	0	8.61
338A	MOUNT WILSON - OBSERVATORY	.05	T	2.50	6.33	4.01	1.04	2.97	.04	T	T	0	T	16.94
338B	MOUNT WILSON - AIRWAYS STATION	.22	0	2.39	4.62	3.37	1.02	2.01	.02	0	0	0	0	13.65
339	WALNUT FRUIT GROWERS ASSOCIATION	0	.08	1.80	3.38	2.48	.75	1.61	.06	0	0	0	0	10.16
341	ALISO CANYON - BLUM RANCH	T	0	1.00	1.29	.90	T	.37	T	0	0	0	T	3.56
342B	UPLAND - CADNUM	0	.30	2.33	2.52	3.41	.69	1.76	.40	0	0	0	0	11.41
347-E	BALDWIN PARK EXPERIMENTAL STATION	0	.08	1.75	3.22	2.31	.57	1.77	.02	0	0	0	0	9.72
349C	CAMP RINCON	.04	.14	2.17	4.82	3.62	.94	3.71	.08*	0	0	0	0	15.52**
351F	PALMDALE	T	T	1.14	1.43	1.45	.05	.35	0	0	T	0	T	4.42
352B	LECHUZA PATROL STATION	.13	.02	1.51	5.16	4.61	.62	2.57	0	0	0	0	0	14.62
355	LOS ANGELES - CITY COLLEGE	.03	.04	1.19	3.15	1.93	.28	1.66	.06	0	0	0	0	8.34
356C	SPADRA - PACIFIC COLONY	T	.08	2.05	2.89	2.79	.80	1.46	.04	0	0	0	0	10.11
357	VAN NORMAN LAKE - UPPER	0	0	1.34	3.57	3.42	1.02	1.62	0	0	0	0	0	10.97
362B	EL MIRADOR RANCH	.02	0	1.54	3.09	2.38	.57	1.69	0	0	0	0	0	9.29
363C	WILSON CANYON	T	T	1.46	4.29	4.39	1.51	2.48	T	0	0	0	0	14.13
364	HAINES CANYON - LOWER	0	0	1.78	3.67	2.47	.47	1.76	0	0	0	0	0	10.15
365C	MT. LUKENS	0	0	1.75	4.17	2.54	.68	1.78	.06	0	0	0	0	10.98
367	HAINES CANYON - UPPER	0	0	1.59	4.15	2.62	.60	1.95	0	0	0	0	0	10.91
372	SAN FRANCISQUITO - POWER HOUSE NO. 2	T	0	1.02	3.49	2.41	.73	2.02	T	0	0	0	0	9.67
373B	BRIGGS TERRACE	.10	0	1.55	3.97	2.92	.84	2.02	.07	.02	0	0	T	11.49
375B	GRIFFITH PARK ZOO	.02	.10	1.44*	3.84	1.75	.10	1.75	.06*	0	0	0	0	9.06*
377F	LAKE SHERWOOD ESTATES	.02	0	1.96	3.92	2.06	.38	2.26	0	0	0	0	0	10.60
379B	SAN GABRIEL - EAST FORK	.03	.18	2.01	4.48	2.94	.67	3.43	.06	0	.10	0	0	13.90
380	EL SERENO - MORGAN	0	.07	1.47	3.28	2.14	.59	1.71	.02*	0	0	0	.01*	9.29**
381C	SANTA MONICA - OUTLOOK	0	.03	1.22	3.38	2.91	.25	2.03	0	T	0	0	0	9.82
384B	HIGHLAND PARK - SAN RAFAEL HILLS	0	.03	1.68	3.32	2.18	.38	1.71	T	0	0	0	0	9.30
386C	ZUMA CANYON - OAKLEY	.20	T	1.90	5.60	3.06	.51	3.03	0	0	0	0	0	14.30
387B	COVINA SEWAGE PLANT	.03	.06	2.76	2.82	2.24	.62	1.82	.04	0	0	0	T	10.39
388C	PARAMOUNT - COUNTY FIRE STATION	.02	0	1.57	2.46	3.54	.34	1.55	.09	0	0	0	0	9.57
389B	GLENDORA - BROWN	.12	.09	1.92	3.21	2.90	1.01	2.30	.11	.01	0	0	.02	11.69
390B-E	MORRIS DAM	.04	.07	2.15	4.36	4.24	.76	2.37	.15	0	0	0	.03	14.17
391B	MONTEBELLO - FIRE DEPARTMENT	0	.09	1.23	3.17	2.56	.50	2.28	0	0	0	0	T	9.83
394	HIGHLAND PARK - LINDSAY	.01	.02	1.59	3.28	1.88	.43	1.58	0	T	0	0	0	8.79
395B	OLIVE VIEW SANITARIUM	T	T	1.10	3.26	3.33	.98	1.59	T	0	0	0	0	10.26
402C	CEDAR SPRING - STATE PRISON CAMP	.08	.93	2.97	7.96	4.60	.88	3.88	.22	0	.18	0	.03	21.73

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1959-60

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEASON TOTAL
405	SOLEDAD CANYON - ECKLES	T	0	1.54	2.46	.83	.14	1.19	T	0	T	0	T	6.16
406C	WEST AZUSA - AZUSA IRR. CO. PLANT NO. 6	0	.12	1.92	2.90	2.64	.69	1.85	.04	0	0	0	0	10.16
407-E	NEWHALL - U.S.F.S. HEADQUARTERS	0	0	1.86	4.15	2.77	.28	2.68	0	0	0	0	0	11.74
409	RIDGE ROUTE - STATE HIGHWAY MAINTENANCE STATION	0	0	1.30	3.15	.76	.07	1.10	0	0	0	0	0	6.38
415	SIGNAL HILL - CITY HALL	0	.05	1.78	2.13	2.96	.18	1.31	.15	0	0	0	0	8.56
419B	SANTA CLARA RIDGE - MT. GLEASON	.05*	0	1.21	3.28	2.10	.52	2.21	.01	0	0	0	0	9.38**
420A	ACTON - COLOMBO RANCH	0	0	1.14	2.14	.98	.04	1.01	0	0	0	0	0	5.31
422F	PACOIMA CANYON	0	.05	1.65	3.37	3.28	1.40	2.05	T	0	0	0	0	11.80
423A'	ACTON - ALISO CANYON	.02	.12	1.47	3.19	1.78	.31	1.46	T	0	0	0	T	8.35
425B-E	SAN GABRIEL DAM	.06	.06	2.01	4.52	3.88	.93	2.65	.10	T	T	0	.03	14.24
427B	DOWNEY - JORDAN	T	.03	1.49	3.24	1.56	.53	2.21	.19	0	0	0	0	9.25
430	SAUGUS - STATE HIGHWAY MAINTENANCE STATION	0	0	1.27	2.64	1.35	.18	.79	0	0	0	0	0	6.23
432	SANTA ANITA - FERN LODGE	.32	.03	1.94	4.51	5.04	1.64	2.99	.13	0	T	0	0	16.60
433C	FAIR OAKS DEBRIS BASIN	.10	.01	1.60	3.16	2.71	1.02	2.19	.11	0	0	0	0	10.90
434	MALIBU - DIVISION HEADQUARTERS	.07	T	1.94	2.86	2.31	.20	2.05	0	0	0	0	0	9.43
435	MONTE NIDO	.13	.01	1.73	5.14	3.38	.35	3.31	0	0	0	0	0	14.05
436B	HANSEN DAM	0	0	1.23	2.07	2.09	.46	1.13	0	0	0	0	0	6.98
437	HAMILTON BOWL - LONG BEACH	.01	.04	1.38	1.76	2.43	.16	1.11	.14	0	0	0	0	7.03
440B	CHILAO - U.S.F.S. CAMP	.05	.54	1.75	4.02	1.75	.71	2.00	0	0	0	0	0	10.82
441C-E	PALMDALE - COUNTY ROAD MAINTENANCE YARD	0	.01	1.07	1.28	1.33	.11	.32	0	0	0	0	0	4.12
442	MESCAL CREEK - FORT TEJON ROAD	.16	.20	1.28	1.23	.65	.02	.20	0	.01	.47	.10	.46	4.78
443B	LATIGO CANYON BEACH RANCH	.13	0	2.20	5.46	3.52	.44	3.83	0	.03	0	0	0	15.61
444C	ROLLING HILLS	.01	0	1.77	4.18	3.59	.39	1.44	.01	0	0	0	0	11.39
445B	LIVE OAK DAM	.10	.10	2.11	2.80	3.48	.93	2.05	.30	0	0	0	0	11.87
446	ALISO CANYON - OAT MT.	.07	0	1.63	4.51	4.40	1.23	2.98	0	0	.01	0	0	14.83
447B	LAS FLORES PATROL STATION	0	.01	1.48	4.30	3.39	.32	2.11	0	0	0	0	0	11.61
449B	EATON WASH DAM	.03	.02	1.65	3.65	2.53	1.05	2.20	.13	T	0	0	0	11.26
451B	CASTAIC PATROL STATION	0	0	1.08	2.68	2.24	.36	1.65	0	0	0	0	0	8.01
453B	DEVILS GATE DAM	.01	.02	1.57	3.14	2.53	.83	1.65	.03	0	0	0	0	9.78
455	LANCASTER - STATE HIGHWAY MAINTENANCE STATION	0	T	1.13	1.23	1.29	.04	.18	T	0	0	0	T	3.87
456	PIUTE BUTTE	.10	.05	.92	.79	1.11	.07	.13	T	0	T	.06	T	3.23
458	ZUMA CANYON PATROL STATION	.05	.04	1.34	3.04	4.11	.41	1.30	0	T	0	0	0	10.29
460B	PLEASANT VIEW MESA - NEAL	0	.11	1.30	1.63	.96	0	.47	.09	0	0	0	.30	4.86
461	BALDWIN HILLS - STANDARD OIL FIELD OFFICE	.02	.08	1.23	2.74	2.37	.30	1.64	0	0	0	0	0	8.38
462B	HILLCREST COUNTRY CLUB - LOS ANGELES	0	.20	1.49	3.64	3.12	.26	2.02	0	0	0	0	0	10.73
463B	MAR VISTA SO. CALIFORNIA WATER CO.	0	T	1.22	3.34	2.67	.39	1.58	0	0	0	0	0	9.20
465C	SEPULVEDA DAM	.05	0	1.63	3.09	1.94	.19	2.09	0	0	0	0	0	8.99
466B	PACOIMA CANYON - DUTCH LOUIE CANYON	0	.05	1.74	3.59	3.03	1.31	1.99	.01	0	0	0	0	11.72
468	PICKENS DEBRIS BASIN	.06	0	1.36	2.98	2.31	.74*	1.62	.05	0	0	0	0	9.12**
470	TUJUNGA - MILL CREEK	0	0	1.89	2.79	1.87	.49	1.28	.02	0	.26	0	.03	8.63
471	LITTLE TUJUNGA - GOLD CREEK	.02	0	INC.	N.R.	N.R.	INC.	1.01	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
473B	AQUA DULCE CANYON	0	0	1.18	1.82	.84	.06	.47	0	0	0	0	0	4.37
474B	SOUTH GATE - FIRE DEPARTMENT	0	.05	1.29	3.21	2.96	.40	2.14	.05	0	0	0	0	10.10
475	SAUGUS - NEWHALL LAND AND FARMING COMPANY	0	0	1.35	2.94	1.64	.15	1.08	0	0	0	0	0	7.16
476D	TRIUNFO CANYON	0	0	2.20	3.44	2.66	.26*	2.40	0	0	0	0	0	10.96**
477C	SANTA ANITA - SPRING CAMP	.23	.08	2.64	5.62	4.28	1.58	3.66	.11	0	0	0	0	18.20
478	VALYERMO - U.S.F.S. HEADQUARTERS	.20	.13	1.54	1.46	.91	0	.27	T	0	.06	0	.16	4.73
480B	TEMPLE CITY FIRE STATION	0	.03	1.54	3.24	2.20	.75	2.20	.04	T	0	0	0	10.00
482	LOS ANGELES - U.S.C.	0	.05	1.07	3.13	2.42	.23	1.75	T	0	0	0	0	8.65
486B	COLDWATER CANYON - WIDMAN RANCH	.38	1.06	2.17	3.97	3.40	1.10	4.07	.41	.05	.08	T	.01	16.70
488B	KAGEL CANYON PATROL STATION	.01	0	1.30	2.58	2.78	.72	1.24	0	0	0	0	0	8.63
489	COLD CREEK - STUNT'S RANCH	.10	T	2.14	5.81	2.90	.29	3.92	T	T	T	0	0	15.16
490	LANCASTER - WILLEY RANCH	0	0	.68	.53	1.05	0	.07	0	0	0	0	0	2.33
491B	PACIFIC PALISADES	T	.01	1.57	4.13	3.15	.34	2.26	0	0	0	0	0	11.46
492	CHILAO - STATE HIGHWAY MAINTENANCE STATION	T	.35	2.04	3.76	1.95	.42	2.04	.04	0	0	0	T	10.60
493B	SAND CANYON - BARRUS	0	T	1.38	4.06	1.59	.26	2.10	0	0	T	0	0	9.39
497	CLAREMONT - SLAUGHTER	0	.10	2.03	2.35	3.30	.77	1.72	.28	0	0	0	0	10.55
498	ANGELES CREST HIGHWAY - DARK CANYON TRAIL	.02	.02	1.33	3.25	2.90	.82	1.73	.19	0	0	0	0	10.26
508C	ARROYO SECO - RANGER STATION	0	.01	1.36	4.25	2.74	.79	1.93	.15	0	0	0	0	11.23
517B	ANDERSEN RANCH (LEWIS RANCH)	.06	.22	1.88	2.14	1.12	.03	.92	0	.18	0	0	.05	6.60
519B	ELIZABETH LAKE - STRANDBERG	T	0	1.88	3.26	2.21	.51	2.35	.05	0	T	0	0	10.26
542-E	FAIRMONT	0	0	1.68	2.73	1.64	.42	1.62	0	0	0	0	T	8.09
551	HUENEME LIGHTHOUSE	.01	0	.15	3.88	3.25	.26	1.08	0	0	0	0	0	8.63
564C	LLANO	0	.15	1.02	.93	.75	.05	0	0	0	0	0	.35	3.25
565B	LONG BEACH - CITY AUTOMATIC	T	T	1.38	2.64	2.70	.14	1.11	.11	T	0	0	T	8.03
566	LONG BEACH NO. 1.	T	.09	1.52	2.32	2.78	.23	1.36	.11	T	0	0	T	8.41
571C	LONG BEACH NO. 6.	T	.08	1.49	2.48	2.62	.17	1.41	.07	T	0	0	T	8.32
575C	LONG BEACH WEATHER BUREAU	T	.04	1.67	2.81	3.03	.22	1.27	.09	T	0	0	T	9.13
577F	L.A. (U.S.W.B. - FEDERAL BUILDING	T	.07	1.09	2.94	2.25	.31	1.45	.05	T	0	0	T	8.17
587B	SAN ANTONIO CANYON - POWER HOUSE NO. 1	.18	.26	2.36	3.81	3.46	.57	2.94	.17	0	0	0	.14	13.89
588D	MOUNT LOWE	.25	.04	2.01	3.61	3.13	1.26	2.70	.60	.02	0	0	0	13.62
593B	NEWHALL RANCH	.37	0	1.26	2.89	2.55	.56	2.59	0	0	0	0	0	10.22
598	NEENACH	0	0	1.10	1.67	2.08	0	.62	0	0	0	0	0	5.47
610A	PASADENA - JONES	.02	.06	1.75	3.23	2.59	.73	1.89	.22	.04	0	0	T	10.54
610B	PASADENA - CITY HALL	T	.05	1.63	3.28	2.25	.56	1.76	.04	.01	0	0	0	9.58
611C	ALTADENA GOLF COURSE	.05	0	1.68**	2.85	2.47	.87	1.95	.12	0	0	0	0	9.99**
612	PASADENA - CHLORINE PLANT	.04	.02	1.56	3.00	2.76	.82	1.97	.18	T	0	0	0	10.35
613B	PASADENA - HURLBUT FIRE STATION	.04	.02	1.71	3.66	2.05	.32	1.80	T	T	0	0	T	9.60
617B	POMONA - ADAMSON	.02	.10	1.99	2.82	2.95	.79	1.49	.10	T	0	0	0	10.26
618B	TAPO CITRUS ASSOCIATION	0	0	1.36	3.19	2.73	.39	1.37	0	0	0	0	0	9.04
619	SAN ANTONIO CANYON - SIERRA POWER HOUSE	.26	.56	3.02	4.54	3.11	.76	3.72	.12	0	0	0	0	16.09
627	SAN GABRIEL CANYON POWER HOUSE	.06	.06	2.27	4.08	3.38	1.23	2.08	.17	03	0	0	T	13.36
629C	SAN PEDRO U.S.W.B.	T	.02	1.44	2.68	3.31	.09	.95	.03	0	0	0	0	8.52
634B	SANTA MONICA - CITY HALL	0	0	1.03	3.81	2.98	.24	2.01	0	0	0	0	0	10.07
644	SOMIS - SNYDER RANCH	0	0	1.03	3.50	2.35	.41	1.40	0	0	0	0	0	8.69
647G	SUNLAND - TUJUNGA	T	0	1.61	2.99	2.16	.50	1.16	T	0	0	0	0	8.42
660	OXNARD	.01	0	1.31	3.53	3.37	.21	1.68	0	0	0	0	0	10.11
662B	LONG BEACH - KEEVER	T	.01	1.73	1.98	3.38	.19	1.75	.02	T	0	0	T	9.06
666C	LONG BEACH - NEECE STREET	T	.02	1.41	2.08	3.50	.34	1.44	.02	T	0	0	T	8.81
672	EAGLE ROCK S.C.E. CO. SUBSTATION	T	.03	1.66	3.22	2.10	.54	1.45	0	0	0	0	0	9.00
673B	SEAL BEACH - POWER PLANT	0	.08	1.52	2.49	2.85	.24	1.49	.02	0	T	0	0	8.69
676	LOS ANGELES - WEST 80TH STREET	T	.03	1.25	3.61	3.05	.28	2.29	.02	T	0	0	0	10.53
678	PASADENA - SHELDON RESERVOIR	.01	.01	1.59	3.06	2.71	.62	1.78	.02	T	0	0	0	9.80
679	PUENTE - NO. WHITTIER HEIGHTS CITRUS ASSOCIATION	0	.10	1.99	2.83	2.43	.78	2.04	.06	0	0	0	0	10.23
680B	WESTWOOD - U.C.L.A.	T	.01	1.34	4.12	2.96	.25	2.50	T	T	T	0	0	11.18
681A	SIERRA MADRE RANGER STATION	.12	0	1.71	3.10	2.76*	1.74*	3.18	.22	0	0	0	0	12.83*
683	SUNSET RIDGE GUARD STATION	.12	0	1.36	2.78	2.68	.91	1.95	.19	0	0	0	0	9.99
691B	SAN ANTONIO SPREADING GROUNDS	T	.12	2.17	2.82	3.51	.67	2.48	.23	0	0	0	0	12.00
695B	TUJUNGA CANYON - VOGEL FLAT	T	0	1.44	4.63	2.36	.80	2.15	.02	0	0	0	0	11.40
703	GLENDALE - MC INTYRE	.01	0	1.42	3.02	2.02	.37	1.42	.03	0	0	0	0	8.29
705	ALDER CREEK - PARADISE RANCH	.03	.02	1.41	3.61	2.19	.72	1.51	T	0	0	0	0	9.49
716	L.A.W.D. - DUCOMMUN STREET	0	.06	1.16	3.49	2.24	.59	1.80	.03	0	0	0	0	9.37
718B	THOUSAND OAKS	.03	0	1.64	2.67	2.40	.35	1.31	0	0	0	0	0	8.40
719	DUARTE - MADDOCKS	.05	.02	1.76	3.56	2.87	1.02	2.08	.12	0	0	0	0	11.48
720	SIMI VALLEY - FORSON RANCH	.32	0	1.53	4.00	1.75	1.16	2.10	0	0	0	0	0	10.86
722C	BELLEVIEW - STRATMAN	0	0	1.34	1.46	1.40	.08	.67	0	0	0	0	T	4.95
724	BIG DALTON - MONROE CANYON FLUME	.13	.09	2.37	4.23	3.68	.96	2.55	.24	T	0	0	.01	14.26
725	BIRMINGHAM HOSPITAL	.06	.06	1.77	4.01	2.47	.17	2.15	0	0	0	0	0	10.69
726B	ANGELES CREST-GUARD STATION	.06	0	1.60*	4.37	3.12	1.02	1.96	.24	0	0	0	0	12.37*
727	NEWCOMB PASS	.09	.07	2.49	6.05	3.82	1.34	3.30	.09	0	0	0	0	17.25

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1959-60

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
728	PACOIMA CANYON - CITY ROAD GAGE	0	0	1.71	3.90	3.31	1.23	2.02	.25	0	0	0	0	12.42
730	MILLARD CANYON - DAWN MINE	0	0	1.85	3.38	3.21	1.12	2.51	.21	0	0	0	0	12.28
731	OAK GROVE HEADQUARTERS - U.S.F.S. FLOOD CONTROL	0	T	1.74	2.87	2.71	.43	1.61	T	0	0	0	0	9.36
732B	ROBERT'S CANYON - SAN GABRIEL WEST FORK DIVIDE	.06	.06	1.97	4.43	4.39	1.42	4.03	.15	0	T	0	.04	16.55
734B	LOS ANGELES MUNICIPAL AIRPORT	.01	.06	1.11	2.83	2.90	.21	2.00	T	T	T	0	T	9.12
735B	BELL CANYON - RUSHWORTH	.10	0	1.58	3.34	2.89	.34	1.34	0	0	.03	0	0	9.62
737	UPPER SESPE - CHORO GRANDE RANCH	0	0	3.77	5.80	3.03	.34	1.77	0	0	T	0	0	14.71
739	SANTA PAULA - LIMONEIRA RANCH	0	0	1.16	4.07	3.13	.43	2.49	0	0	0	0	0	11.28
740B	SAN DIMAS CANYON - FERN NO. 2	.11	.34	2.38	5.45	3.76	.49	3.76	.37	0	0	0	0	16.66
741	SAN DIMAS CANYON - UPPER E. FORK	.07	.22	2.82	3.69	3.18	.71	3.02	.55	0	0	0	0	14.26
742C	SAN GABRIEL - FIRE DEPARTMENT	0	.07	1.64	3.26	2.12	.81	2.64	.02	T	T	0	0	10.56
746	MOJAVE - BACKUS RANCH	T	0	1.01	1.31	1.31	T	.30	0	0	0	0	.23	4.16
747	SANDBERG - AIRWAYS STATION	0	0	1.97	2.18	.88	.08	.94	T	0	.04	0	0	6.09
749	BURBANK - U.S.W.B.	T	.01	1.30	2.67	2.00	.18	1.53	.02	T	T	0	T	7.71
750	PALMDALE - C.A.A.C. STATION	T	T	.94	.97	1.44	.10	.11	T	0	0	0	T	3.56
751	TORRANCE - FIRE DEPARTMENT	T	T	1.82	4.20	2.58	.45	1.42	0	T	0	0	0	10.47
755	GRIFFITH PARK - LITTLE CANYON	.03*	.06*	1.40	3.07	1.97	.31	1.57	.06*	0	0	0	0	8.47**
756	GRIFFITH PARK - UPPER SPRING CANYON	.08*	.06*	1.28**	3.21	1.86	.30	1.70	.08*	0	0	0	0	8.57**
757	GRIFFITH PARK - FERN DELL	.06*	.04*	1.38**	3.28	1.86	.29	1.55	.05*	0	0	0	0	8.51**
758	GRIFFITH PARK - LOWER SPRING CANYON	.02*	.10*	1.44	3.36	2.11	.34	1.73	0	0	0	0	0	9.10**
759B	NICHOLS DEBRIS BASIN	.02	.03	1.37	3.54	2.20	.30	1.89	0	0	0	0	0	9.35
760	STUDIO CITY - 3913 GOODLAND AVENUE	0	0	1.48	3.56	1.87	.10	2.80	0	0	0	0	0	9.81
762	UPPER STONE CANYON	0	0	1.57**	3.80	2.17	.15	2.35	0	0	0	0	0	10.04**
763B	SEPULVEDA CANYON - EAST FIRE ROAD NO. 19	0	0	1.70	4.63	1.89	1.25	2.80	0	0	0	0	0	12.27
764	STONE CANYON, 2302 RIAL LANE	0	0	1.57	4.41	1.83	1.20	2.60	0	0	0	0	0	11.61
765B	15801 MULHOLLAND DRIVE	.02*	0	1.87	4.61	1.61	1.18	3.00	0	0	0	0	0	12.29
766	MANDEVILLE - FIRE ROAD NO. 24	.02*	0	1.91*	4.18	2.14	.10	3.35	0	0	0	0	0	11.70*
767	3351 MANDEVILLE CANYON ROAD	.02*	0	1.88	5.07	2.02	1.40	3.59	0	0	0	0	0	13.98**
768	SULLIVAN CANYON - FIRE ROAD NO. 26	.02*	0	1.96	4.37	1.39*	1.42	3.90	0	0	0	0	0	13.06*
769	SANTA YNEZ CANYON - TEMESCAL FIRE ROAD NO. 30	.04*	0	2.07	4.83	2.16	.17	3.48	0	0	0	0	0	12.75**
770	SANTA YNEZ CANYON - PASEO MIRAMAR	.07*	0	1.05**	2.65	2.57	.16	2.08	0	0	0	0	0	8.58**
771	RUSTIC CANYON - SANTA MONICA	0	.02*	1.45	3.99	2.78	.20	2.18	0	0	0	0	0	10.62**
772	LOS ANGELES - ECHO PARK AND LUCRETIA	.03*	0	1.65	3.07	1.85	.27	1.60	.04*	0	0	0	0	8.51**
774	BARLOW SANITARIUM	.03*	.06*	1.11	2.88**	1.76*	.30	1.43	.03*	0	0	0	0	7.60*
776	NICHOLS CANYON - MULHOLLAND DRIVE	.01*	.02*	1.53	4.18	1.96	1.08	2.40	0	0	0	0	0	11.18**
777	KENTER CANYON - 259 N. KENTER ROAD	0	.01*	1.24	4.61	1.96	1.08	2.40	0	0	0	0	0	11.30**
778B	SEPULVEDA CANYON - BELLAGIO ROAD	0	0	1.63	5.27	2.23	1.34	2.42	0	0	0	0	0	12.89
779	GRIFFITH PARK - LOWER MINERAL WELLS	.01*	0	1.78*	3.37	1.92	.28	1.72	0	0	0	0	0	9.08**
780	GRIFFITH PARK - UPPER MINERAL WELLS	0	0	1.72*	3.40	1.92	.28	1.75	0	0	0	0	0	9.07**
783	COON CANYON	0	0	1.43	3.01	2.55	.85	1.77	.11	0	0	0	0	9.72
784	COON CANYON	0	0	1.39	2.87	2.28	.89	1.70	.16	0	0	0	0	9.29
785	COON CANYON	0	0	1.47	2.95	2.75	1.00	1.89	.20	0	0	0	0	10.26
786	COON CANYON	0	0	1.32	2.61	2.29	.88	1.62	.23	0	0	0	0	8.95
787	COON CANYON	0	0	1.49	3.09	2.60	1.00	1.85	.22	0	0	0	0	10.25
788	COON CANYON	0	0	1.23	2.92	2.64	1.01	1.75	.22	0	0	0	0	9.77
789	EL PRIETO CANYON	0	0	1.59	3.17	2.74	1.05	1.97	.21	0	0	0	0	10.73
790	FILLMORE CITRUS ASSOCIATION	.20	0	1.15	3.76	3.25	.74	2.63	0	0	0	0	0	11.73
791	SATICOY - BUENA VENTURA LEMON ASSOCIATION	0	0	1.30	4.09	2.99	.41	2.34	0	0	0	0	0	11.13
792	SANTA PAULA - COUNTY AGRICULTURE OFFICE	.08	0	1.39	3.95	2.80	.50	2.70	0	0	0	0	0	11.42
793	MARKHAM SADDLE	0	0	1.86	3.40	3.26	1.20	2.33	.08	0	0	0	0	12.13
794-E	LOWER FRANKLIN RESERVOIR	0	0	1.61	4.04	2.35	.27	2.40	.02	0	0	0	0	10.69
795	PASADENA - JOURDAN	.01	.03	1.63	3.15	2.48	.71	2.03	.06	T	0	0	0	10.10
796	FIRE DEPARTMENT - ELYSIAN PARK	.03*	.06*	1.05	2.53	1.73	.26	1.17	.03*	0	0	0	0	6.86**
797	DE SOTO RESERVOIR	.24	0	1.49	3.97	3.48	.65	2.08	0	0	0	0	0	11.91
799	BALDWIN HILLS RESERVOIR	.02	.04	1.09	2.57	2.32	.33	1.71	0	0	0	0	0	8.08
801	MAGIC MOUNTAIN	0	.05	1.78	3.52	1.91	.45	1.66	0	0	0	0	0	9.37
802B-E	EAGLE ROCK RESERVOIR	.02	.01	1.50	3.08	1.88	.44	1.33	.01	0	0	0	0	8.27
807	ASCOT RESERVOIR	.06	.01	1.48	3.43	2.16	.61	1.74	.02	T	0	0	0	9.51
1000	HUNT CANYON - BONES RANCH	0	T	1.20	1.40	1.17	0	20	0	0	0	0	0	3.97
1002	TUJUNGA - EADE	0	0	1.57	2.85	1.98	.41**	1.37	0	0	0	0	0	8.18**
1005	MINT CANYON - THE OAKS	0	T	1.23	2.15	1.25	.24	.56	T	0	0	0	0	5.43
1006	SAN PEDRO - CITY RESERVOIR	0	.02	1.71	3.29	3.81	.26	1.05	0	0	0	0	0	10.14
1007B	CAMP VALCREST	0	.47	2.54	3.46	1.63	.40	.93	.17	0	.01	0	.01	9.62
1008-E	LA FRESA - S.C.E. CO.	T	.01	1.61	2.89	3.40	.17	1.20	0	0	0	0	0	9.28
1009	MINT CANYON - DYER	0	0	1.16	2.10	1.05	.17	1.26	0	0	0	0	0	5.74
1010B	PALMER CANYON - FORKS	.12	.18	2.59	3.57	3.79	.85	2.76	.27	0	0	0	0	14.13
1011B	PALOS VERDES FIRE STATION	0	0	2.15	3.46	4.90	.65	1.65	.14	0	0	0	0	12.95
1012	CASTAIC JUNCTION	.23	0	1.26	2.79	2.08	.40	1.46	0	0	0	0	0	8.22
1013B	TUJUNGA CANYON ABOVE GOLD CANYON	0	0	1.57	3.06	1.96	.90	1.32	T	0	0	0	0	8.81
1014D-E	RIO HONDO SPREADING GROUNDS	0	.06	1.35	3.03	2.64	.42	2.23	.10	0	0	0	0	9.83
1016	PALO COMADO CANYON - AGOURA	.08	0	1.48	2.55	2.30	.23	1.71	0	0	0	0	0	8.35
1017	LITTLE ROCK CREEK - ABOVE SANTIAGO CREEK	0	.06	1.05	1.52	.66	T	.53	0	0	T	0	.16	3.98
1018B	SANTA SUSANA MTS. - DEVILS CANYON	.20	0	1.89	4.86	3.51	.77	2.10	0	0	0	0	0	13.32
1019	SANTA SUSANA MTS. - SALT CANYON	.38	0	2.04	5.06	3.03	.27	2.76	0	0	0	0	0	13.54
1020	PADUA HILLS PATROL STATION	T	.11	2.27	3.29	3.60	.84	2.51	.25	0	0	0	0	12.87
1021	YERBA BUENA WATER TANK	N.R.	N.R.	N.R.	N.R.	INC.	50	1.06	T	0	0	0	0	INC.
1022	HASLEY CANYON - WESTERN GULF OIL	0	0	1.11	2.93	2.40	.73	2.50	0	0	0	0	0	9.67
1023B	GARRAPATA RANYON - SPEER	.05	T	1.98	4.71	1.99	.10	3.69	0	0	0	0	0	12.52
1025	MALIBU BEACH - DUNNE	0	T	1.74	3.68	3.69	.39	1.50	0	0	0	0	0	11.00
1028C	CORRAL CANYON - CRUMP	.15	0	1.70	4.37	4.78	.55	2.85	0	0	0	0	0	14.40
1029	TUJUNGA MILL CREEK SUMMIT	T	.16	2.05	3.58	1.70	.77	1.25	0	0	.20	0	T	9.71
1030	MT. ISLIP - LITTLE JIMMY SPRINGS	T	.77	3.61	8.25	4.51	1.18	4.65	.68	0	.09	0	0	23.74
1031B	MT. WATERMAN	0	.77	3.35	4.13	2.52	.42	1.81	.26	0	0	0	0	13.26
1035	WHITTIER - WOOD	0	.09	1.62	2.96	2.69	.09	1.98	.18	T	0	0	0	9.60
1037-E	ARCADIA - ARBORETUM	.03	T	1.56	3.05	2.55	1.39	2.62	.07	.02	0	0	.06	11.35
1038	MT. PACIFICO	0	.24	1.14	1.72	1.63	0	.95	0	0	0	0	.22	5.90
1039B	LOS ANGELES - MAC QUEEN	.01	.04	1.43	3.30**	2.16	.23	1.88	0	0	0	0	0	9.05**
1040	POTRERO CANYON - SUNRAY OIL	.13	0	1.38	3.46	2.09	.16	1.50	0	0	0	0	0	8.72
1041B	SANTA FE DAM	0	.02	1.56	2.89	2.07	.57	1.59	.07	0	0	0	0	8.77
1042	EASTFIELD GATE - ROLLING HILLS	0	0	2.24	4.70	5.23	.81	1.77	.04	0	0	0	0	14.79
1043	EAST CREST GATE - ROLLING HILLS	0	0	2.86	4.23	5.67	.88	1.98	.24	0	0	0	0	15.86
1044	PORTUGUESE BEND	0	0	1.57	2.15	3.26	.41	1.06	.04	0	0	0	0	8.49
1045B	WEST GATE - ROLLING HILLS	.04*	.05*	1.26	2.26	2.19	.33	.98	.02	0	0	0	0	7.13**
1046B	BIG SANTA ANITA - CHANTRY FLAT	.23	0	2.08	4.17	3.46	2.36	3.68	.29	T	0	0	0	16.27
1048B	LA CRESCENTA - CO. ROAD DEPARTMENT	.04	0	1.51	3.37	2.73	.44	1.98	.02	0	0	0	0	10.09
1050	OLD TOPANGA CANYON - GRAY	.11	T	2.05	6.01	2.37	.22	4.16	0	0	0	0	0	14.92
1051	CANOGA PARK - PIERCE COLLEGE	.03	.01	1.66	3.83	2.31	.27	1.47	0	T	0	0	0	9.58
1052	CAMP JOSEPHO	0	T	1.87	5.29	3.48	.33	3.45	0	0	0	0	0	14.42
1053	TUJUNGA CANYON - SOLOMON	0	.01	1.46	2.86	1.92	.59	1.13	0	0	0	0	0	7.97
1054	SAN FERNANDO - VETERAN'S HOSPITAL	0	0	1.39	3.07	2.84	.98	1.47	0	0	0	0	0	9.75
1055	MT. BALDY NOTCH	.35	.94	2.75	4.69	4.24	1.05	6.07	.07	0	T	0	.39	20.55
1056	LANCASTER - MC CARGAR	0	0	.60	1.06	.90	0	.06	0	0	0	0	0	2.62
1057B	WHITTIER NARROWS - ABOVE DAM	T	0	1.61	2.89	2.54	.67	1.95	.05	0	T	0	T	9.71
1058	PALMDALE 2 N. E.	0	0	.84	.78	1.00	.03	.14	0	0	0	0	0	2.79
1059B	SOUTH HAWKINS	.19	1.07	2.26	5.53	3.13	.78	2.95	.08	0	.17	T	.09	16.25
1060	LITTLE ROCK - SYCAMORE CAMP	0	.25	1.19	1.80	1.48	0	.76	0	0	0	0	.50	5.98
1062	BUCKHORN FLAT	.05	.73	3.38	5.70	2.89	.53	2.57	.08	0	T	0	T	15.93
1063	SOLEDAD PASS	T	.04	1.27	1.65	1.41	.04	.18	0	0	0	0	.03	4.62
1064	SAN GABRIEL EAST FORK - DOT MINE	.39	.91	1.86	3.40	2.77	.71	3.78	.06	0	.10	0	.05	14.03
1066B	LONG BEACH - LEES STREET	T	.03	1.65	2.21	2.67	.17	1.45	.05	T	0	0	.02	8.25

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1959-60

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
1067	SANTIAGO CANYON	0	0	.89	2.19	1.20	.15	.91	T	0	0	0	0	5.34
1068	RATTLESNAKE CANYON - CAMP NO. 3	0	0	1.72	4.99	3.92	.60	2.63	.03	0	0	0	0	13.89
1069	SAN GABRIEL - EAST FORK TUNNEL	.39	.93	1.91	3.50	3.30	1.20	3.97	.28	0	.10	0	.02	15.60
1070	MANHATTAN BEACH	.04	.02	1.50	2.74	3.24	.62	1.13	0	0	0	0	0	9.29
1071B-E	DESCANSO GARDENS	.06	0	1.61	3.20	2.76	.79	1.60	.02	0	0	0	0	10.04
1072	LITTLE TUJUNGA RANGER STATION	0	0	1.37	2.65	2.03	.80	1.20	0	0	0	0	0	8.05
1073B	PALMDALE - CIRCLE C	T	.02	.93	1.15	1.07	.04	.18	0	0	.06	0	T	3.45
1074	LITTLE GLEASON	.02*	.12*	1.39	3.39*	1.62	.38	1.35	0	0	.10	0	T	8.37**
1075	UPPER WOLFSKILL CANYON	.04	.21	2.80	4.01	3.79	.89	3.13	.59	0	0	0	0	15.46
1076	HIDDEN SPRINGS	T	.07	1.56	2.97	1.69	.65	1.95	.04	0	T	0	.10	9.03
1077B	MONROVIA - 5 POINTS	.12	.03	1.72	3.65	2.96	1.65	2.95	.24	01	0	0	0	13.33
1078	COVINA GRIFFITH	0	.09	1.87	3.41	2.60	.69	1.66	.11	0	0	0	0	10.43
1079	RUBIO DEBRIS BASIN	.11	.02	1.60	2.97	2.82	1.03	2.07	.22	0	0	0	0	10.84
1080B	BRADBURY DEBRIS BASIN	.13	.05	1.96	3.51	2.90	1.07	2.39	.15	0	0	0	0	12.16
1081	DEER DEBRIS BASIN	.06	0	1.51	2.91	2.84	.57	1.53	0	0	0	0	0	9.42
1082	DUNSMUIR DEBRIS BASIN	.14	0	1.66	4.51	2.50	.84	2.11	.04	0	0	0	0	11.80
1083	MADDOCK DEBRIS BASIN	.06	0	1.79	3.70	2.87	1.12	2.33	0	0	0	0	0	11.87
1084	MAY DEBRIS BASIN	.07	0	1.34	2.92	2.77	1.01	1.27	.01	0	0	0	0	9.39
1085	MC CLURE DEBRIS BASIN	.04	0	1.38	2.27	1.96	.34	1.14	.08	0	0	0	0	7.21
1086	TURNBULL DEBRIS BASIN	.04	0	1.67	2.53	2.51	.62	1.82	.07	0	0	0	0	9.26
1087-E	GREEN VERDUGO PUMP PLANT	.01	0	1.56	2.53	1.97	.73	1.03	0	0	0	0	0	7.83
1088B	LA HABRA HEIGHTS WATER CO.	0	T	1.55	3.41	2.85	.54	1.25	.10	0	0	0	0	9.70
1089C	TOPANGA CANYON OUTLET	.07*	0	1.48	3.64	3.43*	.34*	2.19*	0	0	0	0	0	11.15*
1090	LCS ALAMITOS	0	.07	1.93	2.25	2.92	.25	1.21	0	0	0	0	0	8.63
1091	CYPRESS	0	.11	1.88	2.41	3.27	.53	1.21	.09	0	.02	0	0	9.52
1092	BUENA PARK	0	.07	1.75	2.45	2.81	.38	.92	.09	0	0	0	0	8.47
1093-E	FULLERTON AIRPORT	0	.09	1.45	2.85	2.86	.49	1.00	.08	0	0	0	0	8.82
1094	BREA	0	.08	1.55	1.74	2.85	.42	1.29	.12	0	0	0	0	8.05
1095	ORANGE COUNTY RESERVOIR	0	.08	1.58	2.98	2.59	.55	1.09	.11	0	0	0	0	8.98
1096	LA VIDA SPRINGS	0	0	1.73	3.07	2.21	1.41	1.52	0	0	0	0	0	9.94
1097	CARBON CANYON SUMMIT	.03	.17	1.85	3.58	2.53	.67	1.59	.15	T	0	0	0	10.57
1098	BREA CANYON	0	0	1.83	3.22	2.00	1.32	1.65	0	0	0	0	0	10.02
1099	WHITTIER - CATE	0	.08	1.54	3.06	2.56	.47	2.00	.13	0	0	0	0	9.84
1101	DEL SUR SCHOOL	0	0	1.02	1.89	1.38	.02	0.65	0	0	0	0	0	4.96
1102B	BOBCAT CANYON - SAN GABRIEL WEST FORK	.15	.16	1.84	3.47	2.90	.45	2.47	0	0	0	0	.10	11.54
1104	BOUQUET CANYON - TEXAS CANYON	0	0	INC.	INC.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	0	0	INC.
1105B	FAIRMONT	0	0	1.51	2.09	.82	.02	1.01	0	0	0	0	0	5.45
1106	ANTELOPE VALLEY FIELD STATION	0	0	1.10	1.63	1.20	T	.65	0	0	0	0	0	4.58
1107C	LA TUNA CANYON	0	0	1.61	2.69	2.30	.19	1.24	0	0	0	0	0	8.03
1108	ANAVERDE - PLATT	0	0	1.38	2.05	1.35	0	.25	0	0	0	0	0	5.03
1109	MT. BALDY	.29	1.11	3.24	5.53	5.00	1.24	7.16	.08	0	0	0	.42	24.07
1110	SCHOLL DEBRIS BASIN	.03	.02	1.54	3.00	1.99	.49	1.34	.02	.02	0	0	0	8.45
1111B	PUNCHBOWL RANCH	.14	.32	1.14	2.35	.90*	0	1.50	0	0	0	0	0	6.35**
1112	BEAR CANYON - SAN GABRIEL WEST FORK	.13	.66	2.30	4.76	3.03	.89	3.15	0	0	0	0	.05*	14.97**
1113	DOMINGUEZ WATER CO.	0	.02*	1.71**	2.64	2.91**	.21	1.33	0	0	0	0	0	8.82**
1114	WHITTIER NARROWS DAM	0	.04	1.32	3.02	2.63	.51	2.17	.05	0	0	0	0	9.74
1115	SAN ANTONIO DAM	.03	.12	2.18	2.98	3.55	.65	2.46	.23	0	0	0	0	12.20
1116	LONG BEACH - SAN ANSELINE	T	.08	1.73	2.42	3.03	.19	1.57	.11	T	0	0	T	9.13
1117	PINE CANYON - SAN GABRIEL	0	0	1.36	3.31	2.53	.32	2.18	.05	0	0	0	0	9.75
1118	LAKEWOOD	T	.07	1.70	2.28	3.61	.25	1.35	.11	T	0	0	T	9.37
1119	ATMORE MEADOW	N.R.	N.R.	N.R.	N.R.	N.R.	.12	1.92	.02	0	0	0	0	INC.
1120	DAWSON SADDLE	0	.77	4.39	5.16	1.78	.80	1.80	0	.23	.03	T	0	14.96
1121	BARLEY FLAT	0	0	2.61	4.96	3.61	.31	2.14	T	0	T	T	0	13.63
1122	COOKS DEBRIS BASIN	.08	0	1.50	3.69	2.12	.56	1.68	0	0	0	0	0	9.63
1123	CIMA MESA - FARVUE RANCH	.04	.16	1.28	1.74	1.13	.06	.71	.02	0	0	.03	.52	5.69
1124	RED BOX GAP	.11	0	2.35	6.27	3.02	1.70	3.51	0	0	0	0	0	16.96
1125	LA PUENTE	.32	.10	1.70	3.21	2.53	.14	2.00	.05	0	0	0	0	10.05
1126	L.A.W.D. - EAST VALLEY	.43	.01	1.53	2.64	2.15	.27	1.46	0	0	0	0	0	8.49
1127	WEST BURBANK	.11	0	1.42	3.16	2.02	.27	1.63	T	0	0	0	0	8.61
1128	WRIGHTWOOD FIRE STATION	.30	.63	1.77	2.79	1.86	.32	1.69	0	.05	0	0	.03	9.44
1129	NICHOLAS CANYON	.02	T	.87	2.74	3.36	.26	.94	0	.02	0	0	0	8.21
1130	PUZZLE SPRINGS RANCH	.06	.25	.99	1.90	.72	.03	.46	T	T	.12	0	.67	5.20
1131	CHARTER OAK - WALKER	T	.09	1.83	2.53	3.03	.69	1.99	.12	0	0	0	T	10.28
1132	OAK FLAT GUARD STATION	0	0	1.39	4.23	2.29	.45	2.55	0	0	0	0	0	10.91
1133	FISH CANYON	.07	.07	2.34	5.26	4.87	1.40	3.97	.15	0	0	0	.03*	18.16**
1135	LUNADA BAY	.06	.01	1.51	2.95	2.32	.32	4.15	0	0	0	0	0	11.32
1136	DUARTE FIRE STATION	0	T	1.70	3.80	2.78	.85	1.84	.10	0	0	0	0	11.07
1137	STOUGH PARK	.07	0	1.47	2.60	2.04	.38	1.22	0	0	0	0	0	7.78
1138	MT. DISAPPOINTMENT	.22*	.40	3.03	4.94	3.21	1.11	2.78	0	0	0	0	0	15.69**
1139	PALOS VERDES HILLS - HICHRIDGE	0	0	1.72	2.56	2.81	.39	1.72	.09	0	0	0	0	9.29
1140	ROSEMEAD	N.I.	N.I.	N.I.	N.I.	N.I.	INC.	N.R.	2.00	T	0	0	T	INC.
1141	BEE CANYON	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.	0	0	0	INC.
1142	SOLEDAD CANYON - BERMITE POWDER CO.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.	0	0	0	INC.
1143	LITTLE TUJUNGA - GOLD CREEK	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.	0	0	0	INC.
1144	SAN GABRIEL - NORTH FORK	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	N.I.	INC.	T	INC.
1145	UPLAND	.04	.10	2.16	2.61	3.62	.68	1.62	.30	T	0	0	0	11.13
X6	ENCINO	.07	0	2.12	4.63	2.11	.21	3.39	0	0	0	0	0	12.53
X12C	WILSONA	0	0	1.10	.73	.75	T	.05	0	0	T	.05	0	2.68
X15	HI VISTA - CARD	.10	.10	.85	.71	1.15	0	.05	0	0	0	0	0	2.96
X19	COOKS CANYON	0	0	1.33	3.52	2.25	.63	1.86	.06	0	0	0	0	9.65
X21	DUNSMORE CANYON - UPPER	0	0	1.64	3.92	2.47	.78	1.81	.12	0	0	0	0	10.74
X22	ISLIP SADDLE	0	.40	3.03	5.62	3.49	.85	3.09	.50	0	.10	0	.16	17.24
X23	DOER CANYON	.13	1.32	3.82	5.06	1.52	.53	1.56	0	.56	.38	0	.18	15.06
X24	GRASSY HOLLOW	.29	1.59	1.56	3.62	1.99	.70	1.37	0	.15	.16	0	.62	12.05
X25	BEAR CANYON	.16	1.15	2.31	5.51	3.11	.52	3.43	0	.15	.35	0	1.26	17.95
X26	BLUE RIDGE	.28	2.04	2.25	3.26	1.82	.55	2.24	0	.18	.68	0	.79	14.09
X27	GUFFY'S CAMP	.31	1.08	2.44	4.56	2.67	.52	3.06	0	.19	.11**	0	.26	15.20**
X28B	HOLIDAY HILL	.19	.55	2.37	4.36	2.18	.34	2.42	0	0	.91	0	1.15	14.47
X29	PINE MT.	.14	.16	4.43	5.81	3.87	1.46	3.52	.15	0	0	0	0	19.54
X30	ANGELES CREST - GRIZZLY	.02*	.02*	1.34**	3.84	3.20	.94	2.15	.21	0	0	0	0	11.78**
X31	LUKENS DISPOSAL AREA	.06*	0	1.60*	3.80	3.25	.96	1.89	.22	0	0	0	0	8.64
X32	HAY DEBRIS BASIN	.10	0	1.39	3.70	1.55	.56	1.23	.11	0	0	0	0	9.32
X33	EAGLE DEBRIS BASIN	.07	.01	1.40	3.62	2.15	.59	1.37	.11	0	0	0	0	

LEGEND

* ESTIMATE > 10% OF TOTAL
** ESTIMATE < 10% OF TOTAL

INC. INCOMPLETE RECORD
N.I. NOT INSTALLED
N.R. NO RECORD

TABLE VI

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1960-61

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
2B	ESCONDIDO CANYON	0	2.80	.24	1.67	0	.99	.12	0	0	0	.08	.24	6.14
3B	SEMINOLE HOT SPRINGS	0	4.44	.20	2.21	0	.58	.33	.03	0	0	.15	0	7.94
5B	CALABASAS	0	3.34	.09	1.60	0	.49	.37	0	0	0	.30	0	6.19
6	TOPANGA PATROL STATION	0	4.32	.17	2.82	0	.74	.38	.02	0	0	.42	.09	8.96
9B	LINDOMAR NURSERY - SEPULVEDA AND RAYEN	0	3.59	.07	1.35	.02	.41*	.34	0	0	0	.41*	T	6.19*
10	BEL AIR HOTEL	0	3.75	.28	1.56	0	.75	.22	0	0	0	.32	.02	6.90
11C	UPPER FRANKLIN CANYON RESERVOIR	T	3.80	.35	2.07	T	.68	.45	0	0	0	.39	.08	7.82
12	FRANKLIN CANYON - MULHOLLAND HIGHWAY	0	4.14	.30	2.18	0	.50	.50	0	0	0	.40	0	8.02
13B	NORTH HOLLYWOOD - BLIX	.03	3.67	.20	2.07	.08	.51	.41	0	0	0	.32	.02	7.31
14B	ROSCOE-MERRILL	T	3.59	.15	1.54	.02	.42	.54	0	T	0	.50	.05	6.81
15B	VAN NUYS	0	3.02	.10	1.69	.01	.33	.60	T	0	0	.49	.02	6.26
17	SEPULVEDA CANYON AND MULHOLLAND HIGHWAY	0	3.89	.10	2.33	0	.35	.41	0	0	0	.49	0	7.57
20B	GIRARD RESERVOIR	0	3.50	.04	1.64	0	.40	.39	.02	T	0	.44	.03	6.46
21	BRANT RANCHO - GIRARD	0	2.59	.06	1.32	0	.32	.24**	0	0	0	INC.	INC.	INC.
23-E	CHATSWORTH RESERVOIR	T	3.29	.11	1.52	0	.50	.23	0	T	0	.99	.05	6.69
24D	CHATSWORTH	0	3.17	.15	1.55	0	.60	.34*	0	0	0	.47	0	6.28**
25B	NORTHRIDGE - ANDREWS	0	2.76	.12	1.37	0	.52	.25	T	0	0	.16	0	5.18
27B	PACOIMA - RADDATZ RANCH	0	3.43	.08	1.45	.03	.38	.23	T	0	0	.32	.08	6.00
28F	SAN FERNANDO	0	3.59	.16	1.15	.04	.42	.26	T	0	0	.22	.09	5.93
29B	GRANADA PUMP PLANT	0	3.79	.21	1.64	0	.87	.31	T	0	0	.07	.08	6.97
30B	SYLMAR	0	4.15	.20	1.39	0	.67	.33	0	0	0	.05*	0	6.79**
31	ORCUTT RANCH	0	5.76	.33	2.76	0	.89	.62	0	0	0	.14	T	10.50
32C	NEWHALL-SOLEDAD DIVISION HEADQUARTERS	T	4.23	.06	1.60	0	.65	.28	.08	0	.06	0	.09	7.05
33A'-E	PACOIMA DAM	0	5.12	.26	1.39	.03	.61	.51	.10	0	.01	.58	.13	8.74
39B	SUNSET DAM	.04	3.99	.28	1.92	0	.50	.78	.04	0	0	.04	.10	7.69
42B	REDONDO CITY HALL	0	2.58	.07	.82	0	.52	.02	0	.01	0	.04	.02	4.08
43D	PALOS VERDES ESTATES	0	2.94	.06	.96	0	.38	.09	0	.05	0	.03	T	4.51
44B	POINT VICENTE LIGHTHOUSE	.01	2.55	.09	1.00	T	.38	.06	T	T	T	T	T	4.09
46D-E	BIG TUJUNGA DAM	.53	5.75	.45	2.16	.01	.73	.32	T	T	0	.81	T	10.76
47D	CLEAR CREEK - CITY SCHOOL	.23	8.37	.32	2.32	.04	.93	.56	0	0	0	.15	.03	12.95
48B	OAK WILDE	.14	4.93	.11	2.00	T	.84*	.45	.05	0	0	.06	.05	8.63**
50B	LA CANADA - ARROYO SECO	.15	4.48	.02	2.01	T	1.47	.51	0	0	0	.11	.02	8.77
51	FALLING SPRINGS	1.61	6.66	.08	2.14	T	1.59	.46	.13	0	T	.99	.05	13.71
52B	SWITZER'S CAMP	.25*	5.67	.38*	1.71	0	.62	.38	0	T	0	.12*	0	9.13**
52C	WATERMAN GUARD STATION	.30	6.86	.38	1.92	0	.78	.41**	0	0	0	.12	0	10.77**
53D	COLBY'S	.30	5.94	.43	1.63	.01	.87	.38	0	0	T	1.68	0	11.24
54C	LOOMIS RANCH - ALDER CREEK	.26	3.84	.12	.98	T	.64	.16	T	0	0	1.11	0	7.11
57B-E	OPID'S (CAMP HI-HILL)	.60	7.03	.50	3.70	T	1.21	.60	.05	0	T	.26	T	13.95
58	STURTEVANT CAMP	.60	7.64	.49	4.05	0	1.45	.90	.23	0	0	.02	.06	15.44
60A	HOEGEE'S	.46	6.82	.49	3.50	0	1.43	.73	.22	0	0	.06	.03	13.74
63B-E	BIG SANTA ANITA DAM	.43	4.24	.27	1.76	0	.91	.63	.30	0	.02	.02	T	8.53
66	SIERRA MADRE - PEGLAR RANCH	.21	3.67	.15	1.66	0	.92	.35	T	0	0	0	0	6.96
67D	MONROVIA-NEWS POST	.44	3.55	.14	1.66	0	.97	.27	T	0	0	T	T	7.03
68B	SAWPIT DAM	.83	4.25	.20	2.22	0	1.01	.45	.26	0	T	.02	T	9.24
69B	SAWPIT CANYON	1.03	4.61	.24	2.56	0	1.16	.47	.29	0	T	.03	T	10.39
70D	ROGER'S CANYON	.45	4.33	.17	2.25	0	1.30	.30	.18	0	0	.15	0	9.13
73	GLENDORA - ENGLEWILD RANCH	.87	4.43	.15	2.12	.03	1.57	.31	.12	0	.01	.05	.02	9.68
76B	SAN GABRIEL DAM CAMP	.93	6.07	.19	2.16	0	1.32	.52	T	0	T	.07	0	11.26
78B	COLDBROOK	1.50	6.39	.05	2.20	0	1.33*	.42*	0	0	0	1.05	0	12.94**
80B	PRAIRIE FORK	1.43	5.18	.42	1.47	T	1.62	.20	.01	0	.01	.89	0	11.23
81B	VINCENT GAP	.26	6.19	.26	1.50*	0	1.50*	.26	0	0	0	1.17	.12	11.26**
82D	TABLE MOUNTAIN	1.10	4.42	.41	1.11	T	1.23	.19	T	0	T	2.45	0	10.91
83B	BIG PINES RECREATION PARK	1.47	5.18	.42	1.47	T	1.62	.20	.01	0	.03	2.35	0	12.75
85G	MT. BALDY GUARD STATION	1.47	6.10	.38	2.56	0	1.43	.40*	T	0	0	.55	T	12.89**
87B	SAN DIMAS GUARD STATION	.71	4.14	.20	1.91	T	2.15	.46	.05	0	0	0	.03	9.65
89B-E	SAN DIMAS DAM	.63	3.98	.32	1.63	.01	1.75	.30	.11	0	T	.09	T	8.82
90	ELDER RANCH	.72	3.97	.20	1.63	0	1.69	.36	.09	0	0	.20	.02	8.88
91	INDIAN HILL - CLAREMONT	.27	3.42	.16	1.04	0	1.33	.18	.05	0	0	.17	0	6.62
92	CLAREMONT - POMONA COLLEGE	.66	3.28	.11	1.01	.02	1.03	.12	.03	0	.01	.02	0	6.29
93B	CLAREMONT FIRE STATION	.64	3.35	.13	1.02	.02	.92	.19	.05	0	T	.04	0	6.36
95	SAN DIMAS FIRE WARDEN	.38	2.86	.15	1.27	0	.94	.18	.08	0	T	.13	0	5.99
96B-E	PUDDINGSTONE DAM	.47	2.88	.11	1.26	0	1.11	.18	.09	0	0	.23	0	6.33
98	AZUSA-HIBSCH	.57*	3.16*	.15*	1.69	0	1.24	.17	0	0	.01	.10	0	7.09*
99B	AZUSA - FOOTHILL RANCH	.47	3.61	.20	1.59	0	1.13	.21	.13	0	0	.04	0	7.38
101B	WEST COVINA - HURST RANCH	.32	2.77	.12	1.61	0	.81	.26	0	0	.02	.19	0	6.10
102C	WALNUT - PATROL STATION	.32	2.73	.18	.93	0	.58	.20	0	0	0	.02	0	4.96
104	NO. WHITTIER - COLE RANCH	.27	2.82	.13	1.64	0	.73	.42	0	0	0	.18	0	6.19
106D	WHITTIER CITY HALL	.12	2.59	.08	1.37	0	.51	.28	0	.02	T	.06	T	5.03
107C	DOWNEY - FIRE DEPARTMENT	.15	1.68	.13	1.52	0	.53	.21	0	0	0	.04	.04	4.30
108C	EL MONTE FIRE STATION	.20	2.88	.03	1.70	T	.65	.18	.02	T	T	.03	T	5.69
109D	WEST ARCADIA	.02	3.50	.19	1.39	0	.83	.19*	T	0	T	0	.03	6.15**
110B	ALHAMBRA	.06	3.49	.21	1.56	0	.71	.29	T	.02	T	.02	T	6.36
111	SOUTH PASADENA - CITY HALL	.05	3.85	.16	1.51	.10	.59	.27	T	0	0	.08	0	6.61
116D	INGLEWOOD - FIRE STATION	T	2.90	.17	1.19	.07	.43	.06	0	0	T	.11	.02	4.95
117F	COMPTON - FIRE STATION	T	2.32	.10	1.14	0	.57	.14	T	0	0	.08	.03	4.38
118C	WILMINGTON	0	1.96	.14	1.25	0	.21	.13	.04	0	0	.07	T	3.80
119D	SAWTELLE-SOLDIER'S HOME	0	3.43	.29	1.47	0	.63	.24	0	0	0	.16	0	6.22
120	VINCENT PATROL STATION	.08	1.56	.14	.40	0	.70	T	0	0	0	3.76	0	6.64
122F	LEONIS VALLEY - RITTER RANCH	.40	2.51	.11	.60	.02	1.05	.08	0	0	0	.65	0	5.42
124B	BOUQUET CANYON RESERVOIR	.90	3.51	.30	.84	.02	.92	.24	.05	0	0	.94	.01	7.73
125	SAN FRANCISQUITO CANYON POWER HOUSE NO. 1 (SAUGUS)	.14	4.55	.22	1.10	0	.76	.47	0	T	T	.74	.03	8.01
126B	VENICE - FIRE STATION	0	3.02	.07	1.28	0	.47	.09	.01	0	0	.36	.04	5.34
127B-E	DRY CANYON RESERVOIR	0	3.37	.10	.87	0	.50	.34	.03	0	.15	.14	.02	5.52
128B	ELIZABETH LAKE CANYON	T	6.47	.37	1.70	0	.82	.55	.03	0	.25	.05	T	10.24
130B	SANDBERG'S - QUAIL LAKE	.02	4.72	.11	1.57	1.02	1.36	.43	.50	T	0	1.08	0	10.81
134	SAN DIMAS - STEVENS	.66	3.24	.27	1.30	0	1.09*	.20	.07	0	0	.02	0	6.85*
135	NORWALK	0	2.15	.05	1.09	0	.45	.17	0	0	0	.06	0	3.97
136B	HOLLYWOOD - CITY ENGINEER	T	3.37	.22	1.57	.02	.53	.33	0	0	T	.14	T	6.18
139B	LOS ANGELES WATER DEPARTMENT	.02	2.64	.14	1.52	.08	.65	.28	T	0	T	.02	.07	5.42
140B	SAWTELLE	0	3.06	.25	1.42	0	.42	.18	0	0	0	.16*	.03*	5.52**
143B	AZUSA - CITY PARK	.57	3.81	.15	1.63	0	1.19	.17	.18	0	.02	.10	0	7.82
144	SIERRA MADRE DAM	.80	4.11	.22	1.91	.03	.97	.51	.16	0	0	.02	.02	8.75
155B	LITTLE ROCK CREEK	0	1.66	.05	.25	0	.52	.05	0	0	T	.85	0	3.38
156	LA MIRADA - STANDARD OIL CO.	.11	2.16	.07	1.20	0	.43	.02	T	0	0	.03	T	4.02
157B	EL SEGUNDO - STANDARD OIL CO.	0	2.93	.05	1.29	0	.46	.01	.04	0	0	.16	.05	4.99
158	TANBARK FLATS	.84	5.01	.06	1.72	T	1.73	.48	.14	0	T	.13	.03	10.14
167B	ARCADIA PUMPING PLANT NO. 1	.19	3.71	.16	1.62	0	.97	.33	.02	0	.02	0	T	7.02
169-E	SIERRA MADRE PUMPING PLANT	.26	3.71	.19	1.75	.01	.92	.31	.03	0	0	.02	.03	7.23
170C	POTRERO HEIGHTS	.71	2.35	.08	1.43	0	.51	.22	0	0	0	.09	.05	5.44
171B	CHAPMAN WELLS	.15	3.32	.24	1.53	0	.92	.35	.02	0	0	0	0	6.53
172B	DUARTE	.29	3.08	.12	1.38	0	1.22	.17	0	0	T	T	0	6.26
174	GLENDORA - WARREN	.72	2.80	.15*	1.28	0	.68	.24	.09	0	0	.04	T	6.00**
175B	LA CANADA IRRIGATION DISTRICT	.16	6.25	.15	2.20	0	.78	.97	.06	T	0	.05	.09	10.71
176	ALTADENA - RUBIO CANYON	.17	4.49	.19	1.87	.01	.70	.46	T	0	0	.04	.03	7.96
177F	LA CANADA - AP ROBERTS	.20	4.71	.10	2.19	0	.75	.25	.02	T	0	.02	.02	8.26
179G	BAILEY DEBRIS DAM	.41	4.13	.21	1.92	0	.77	.42	0	0	0	0	.06	7.92
181B	BASSETT - CLIFFORD	T	2.49	.15	1.48	0	.59	.18	0	0	T	T	0	4.89
185	GLENDORA - WEST	.74	3.73	.10	1.57	T	1.13	.27	.12	0	T	.02*	T	7.68**
188C	SAN DIMAS - MORRISON	.77	3.17	.19	1.26	0	1.09	.18	.04	0	0	.14	0	6.84
191B	LOS ANGELES - ALCAZAR	.02	3.47	.13	1.37	T	.61	.35	T	0	0	.11	.01	6.07

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1960-61

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
192C	BELL FIRE STATION	0	2.59	.05	1.11	0	.75	.12	0	.05	0	.22	.01	4.90
193	COVINA NO. 2 - TEMPLE	.40	2.76	.16	1.44	0	.78	.19	.05	T	T	.16	T	5.94
196B	LA VERNE - POLICE DEPARTMENT	.42	3.25	.15	1.08	0	1.01	.17	.07	0	0	.38	0	6.53
198B	BRAND DEBRIS BASIN	.05	3.48	.18	1.81	0	.50	.49	T	0	0	.05	.10	6.66
199C	HUNTINGTON PARK - CITY YARD	T	2.77	.05	1.08	.01	.84	.08	0	.06	0	.11	.02	5.02
200	SAUGUS - S.C.E. CO. SUBSTATION	0	3.43	.11	.93	0	.34	.11	.05	0	T	.09	.03	5.09
201	PUENTE HILLS - ALTA MIRA RANCH	.20	2.98	.13	1.41	0	.72	.41	0	0	0	.02*	.02*	5.89**
208B	ARTESIA	.02	1.75	.06	1.00	0	.45	.03	0	.06	0	.05	0	3.42
210B	BRAND PARK	.03	3.91	.18	1.94	0	.52	.57	.01	0	0	.09	.10*	7.35**
213D	LOS ANGELES - HANCOCK PARK	.01	3.28	.23	1.48	0	.37	.22	0	0	0	.10	0	5.69
215D	BELLFLOWER - MC CLURG	.03	1.92	.15	1.28	0	.33	.07	0	.05	0	.06	.03	3.92
216	GLENDALE - JONES	.06	3.65	.04	1.68	0	.66	.43	T	0	T	.04	.06	6.62
219	PACOIMA WHSE. - CO. FORESTRY	0	3.89	.14	1.37	.06	.36	.33	0	0	0	.32	.04	6.51
221F	PACOIMA WASH - DUCKWORTH RANCH	0	4.65	.20	1.15	.10*	.50	.57	.10*	0	.01*	.58*	.13*	7.99*
222C	LANKERSHIM PUMPING PLANT	0	3.37	.20	1.77	.06	.44	.40	.06	0	0	.23	.06	6.59
223B-E	BIG DALTON DAM	.87	4.13	.12	2.18	0	1.63	.40	.13	0	T	.04	.07	9.57
224B	LONG BEACH - ALAMITOS LAND CO.	0	1.34	.19	1.21	0	.33	.06	0	0	0	0	T	3.13
225	MONTANA RANCH	.01	1.78	.10	1.05	0	.39	.06	.06	.06	0	.38	0	3.59
226B	BURBANK FIRE STATION	T	3.28	.21	1.90	T	.43	.50	T	0	T	.23	0	6.55
227D	SAN GABRIEL - BRUINGTON	.04	3.42	.20	1.42	0	.82	.26*	0	0	0	0	.01	6.17**
228B	BEVERLY HILLS - CITY HALL	.03	3.02	.41	1.56	.03	.48	.28	0	0	0	38.	.02	6.21
230D	CLAREMONT - ELDER	.76	3.28	.18	1.02	0	1.12*	.17	.05	0	T	.25*	0	6.83*
235B	HENNIGER FLATS	.19	5.06	.40	1.79	0	.63	.88	.22	0	0	.08	.18	9.63
236B	SAN FERNANDO - MOLLIN GROVES	0	5.07	.28	1.43	.08	.50	.42	T	0	0	.67	0	8.45
237C-E	STONE CANYON RESERVOIR	0	4.15	.20	2.13	.01	.66	.36	T	0	0	.38	.05	7.94
238	HOLLYWOOD DAM	T	3.51	.33	1.65	.02	.59	.39	T	0	T	.21	.05	6.75
241B	LONG BEACH - VETERAN'S MEMORIAL BUILDING	T	1.31	.13	1.26	T	.34	.12	T	.02	0	0	0	3.18
246B	CULVER CITY - BUS YARD	0	3.11	.26	1.43	.01	.52	.31	0	0	0	.33	.03	6.00
250D	ACTON CAMP	.06	2.36	.24	.43	0	.30	0	0	0	0	1.33	0	4.72
251	LA CRESCENTA	.17	4.94	.38	2.26	0	.87	.91	T	.02	0	.03	.05	9.63
254B	PUENTE - ROWLAND RANCH	.63	3.37	.17*	1.30	0	.45**	.40	.04*	0	0	T	T	6.36**
255C	MOUNT SAN ANTONIO COLLEGE - SPADRA	.64	2.61	.15	1.26	T	.77	.26	.02	.02	T	.08	0	5.81
256B	POMONA - FIRE STATION	.75	2.64	.10	1.01	0	.65	.26	T	0	0	.04	0	5.45
257	GRIFFITH PARK NURSERY	.03	3.27	.15	1.79	T	.61	.42	0	0	0	.06	.04	6.37
258a	GRIFFITH PARK TUNNEL	T	3.24	.18	2.05	0	.77	.33*	0	0	0	.14*	.02*	6.73**
258b	GRIFFITH PARK - SOUTH SLOPE MOUNT HOLLYWOOD	T	3.56	.20	2.02	0	.83	.33*	0	0	0	.14*	.02*	7.10**
258c	GRIFFITH PARK - NORTH SLOPE MOUNT HOLLYWOOD	T	3.35	.20	1.95	0	.78	.28*	0	0	0	.13*	0	6.69**
259C	CHATSWORTH PATROL STATION	0	3.58	.14	1.88	0	.70	.48	.04	0	0	.20	.08	7.10
261B-E	ACTON - ESCONDIDO CANYON	.01	2.42	.14	.32	.05	1.16	.08	0	0	0	.87	0	5.05
263F	POMONA - RIVERA	.88	2.27	.24	1.19	0	.64	.15	0	0	0	0	0	5.37
265D	PUENTE HILLS - WEISEL RANCH	.53	2.47	.28	.96	0	.59	.18	0	T	T	.06	.01	5.08
266C	EAST WHITTIER	.14	2.79	.06	1.23	0	.49	.23	0	0	0	0	0	4.94
269B	DIAMOND BAR RANCH HORSE CAMP	.88	2.54	.24	1.09	0	.68	.12	0	0	0	.02	T	5.57
270C	COUNTY FARM - RANCHO LOS AMIGOS	0	1.79	.12	1.41	T	.44	.14	T	.03	0	.02	T	3.95
272D	L.A. - HEADWORKS PUMPING PLANT	T	3.43	.17	1.92	T	.42	.31	T	0	T	.14	T	6.39
273D	SAN PEDRO HILLS - MC CARRELL	0	3.68	.25	1.48	.07	.58	.07	0	0	0	.07	0	6.20
274B	ACTON - HUBBARD	T	2.09	.11	.80	.20	.97	.15	0	0	0	3.26	0	7.58
275	SAN MARINO HUNTINGTON LIBRARY	.04	3.36	.17	1.53	0	.80	.29	0	0	0	0	0	6.19
277	SAWMILL MOUNTAIN RANCH	0	6.05	.54	2.55	T	.87	.27	.10	0	0	.25	T	10.63
278B	LOS ANGELES - CLARK MEMORIAL LIBRARY	.05	2.72	.12	1.59	0	.39	.12	0	0	0	0	0	4.99
280B	FLINTRIDGE FIRE STATION	.17	4.84	.10	2.07	T	.82	.55	0	0	0	.09	.02	8.66
283C	CRYSTAL LAKE	1.28	9.14	.55	2.64	0	1.31	.20	.04	0	0	1.00	0	16.16
284D	PLACERITA CANYON	0	5.80	.13	1.70	0	.80	1.40	0	0	0	1.50	.18	11.51
285C	MOUNT ST. MARY'S COLLEGE	0	4.95	.24	2.05	0	1.02	.21	0	0	0	.40	0	8.87
287	GLENDORA - MUTUAL CONSOLIDATED IRRIGATION CO.	.62	3.63	.08	1.62	0	1.10	.23	.10	0	0	.02*	T	7.40**
289	LAGUNA - BELL S.C.E. CO. SUBSTATION	.16	1.45	.03	1.17	.02	.37	.10	0	.02	0	.16	T	3.48
290B	MONTEREY PARK - FIRE STATION	.15	2.53	.06	1.51	0	.63	.14	0	.03	0	.06	.02	5.13
291	L.A. - 96TH AND CENTRAL	0	1.89	.12	.98	.03	.45	.11	0	0	0	.05	0	3.63
292C	ENCINO RESERVOIR	0	4.38	.09	2.18	0	.33	.43	T	0	0	.27	.03	7.71
293-E	VAN NORMAN LAKE - LOWER DAM	.01	3.83	.18	1.40	0	.70	.31	T	T	.01	.06	.05	6.55
294B	SIERRA MADRE - MIRA MONTE PUMPING PLANT	.62	4.23	.24	1.89	.04	.98	.38	.09	0	0	.02	.03	8.52
295G	GLENDALE - STAPENHORST	.12	3.29	.06	1.50	0	.60	.40	0	0	0	.05	.03	6.05
298B	GORMAN	0	3.81	.30	.73	.71	1.55	.52	.06	0	0	.65	0	8.33
299D	LITTLE ROCK	.02	1.07	.01	.17	0	.43	.05	0	0	0	2.90	0	4.65
303F	PASADENA - CAL TECH	.16	3.82	.24	1.59	0	.80	.41	T	0	0	T	.04	7.06
304	SAWPIT CANYON - DEER PARK	.87	5.41	.33	2.45	0	1.50	.67	.34	0	T	.04	0	11.61
306D	TRANCAS BEACH	T	2.66	.21	1.34	0	.74	.03	0	0	0	.02	.09	5.09
311b	PASADENA METEOROLOGICAL STATION	.23	4.41	.20	1.56	T	.94	.53	T	0	0	.15	.04	8.06
312	AZUSA PLANT - GLENDORA IRRIGATION CO.	.25	3.66	.12	1.76	0	1.06	.19	.12	0	0	.14	0	7.30
318B	JACKSON LAKE - BIG PINES	.60	5.60**	.12*	1.78	0	1.13	T	0	0	0	.75	0	9.98**
321-E	PINE CANYON PATROL STATION	0	4.00	.50	1.17	0	.80	.31	.02	0	0	.36	0	7.16
322	MUNZ VALLEY RANCH	.01	2.00	.12	.50	0	.45	.14	0	0	0	.58	0	3.80
334B-E	COGSWELL DAM	.35	6.44	.24	3.44	0	.81	.37	.01	0	.03	.15	0	11.84
336-E	SILVER LAKE RESERVOIR	T	3.33	.13	1.49	0	.55	.28	0	0	T	.04	0	5.82
338A	MOUNT WILSON - OBSERVATORY	.79	6.07	.51	3.33	.01	.94	.59	.02	0	0	.21	.03	12.50
338B	MOUNT WILSON - AIRWAYS STATION	.79	6.22	.57	2.72	0	.81	.57	.05	0	T	.19	.06	11.98
339	WALNUT FRUIT GROWERS ASSOCIATION	.55	2.88	.24	1.04	0	.74	.18	0	0	0	0	0	5.63
341	ALISO CANYON - BLUM RANCH	.03	2.24	.17	.40	0	.45	T	T	0	T	2.43	0	5.72
342B	UPLAND - CADNUM	1.02	3.48	.10*	.93	0	1.73	.22	.07	0	0	0	0	7.55**
347-E	BALDWIN PARK EXPERIMENTAL STATION	.17	2.80	.09	1.44	0	.80	.11	.01	0	T	.17	0	5.59
349C	CAMP RINCON	.95	5.74	.13	2.50	0	1.16	.48	0	0	0	.57	0	11.53
351D	PALMDALE	.23	1.30	.08	.34	T	.47	.04	0	0	0	.65	0	3.11
352B	LECHUZA PATROL STATION	0	4.56	.30	2.30	0	.86	.28	.02	0	T	.06	.23	8.61
355	LOS ANGELES - CITY COLLEGE	0	3.36	.19	1.60	.03	.50*	.27	0	0	T*	.14*	.01	6.10**
356C	SPADRA - PACIFIC COLONY	.59	2.70	.29	1.05	T	.72	.18	0	0	0	T	0	5.53
357	VAN NORMAN RESERVOIR - UPPER	0	3.92	.22	1.57	0	.81	.32	.02	0	0	.04	.06	6.96
362B	EL MIRADOR RANCH	.16	4.56	.11	1.73	0	.81	.46	0	0	0	.06	.05	7.94
363C	WILSON CANYON	.12	7.03	.40	2.59	.06	1.07	.91	0	0	0	1.37	.25	13.80
364	HAINES CANYON - LOWER	.20	5.02	.36	2.45	0	.50	.30	T	0	0	.15	.10	9.08
365C	MT. LUKENS	.34	6.06	.38	2.41	.03	.75	.46	.06	0	0	.24	.10	10.83
367	HAINES CANYON - UPPER	.33	6.85	.48	2.82	0	.63	.42	T	0	0	.10	.12	11.75
372	SAN FRANCISQUITO POWER HOUSE NO. 2	T	4.51	.14	1.08	0	1.00	.28	.03	0	.13	.21	T	7.38
373B	BRIGGS TERRACE	.17	5.89	.30	2.80	.01	.93	1.07	.14	T	T	.13	.12	11.56
375B	GRIFFITH PARK ZOO	0	2.35	.20	1.60	0	.74	30*	0	0	0	.10	0	5.29**
377F	LAKE SHERWOOD ESTATES	0	4.15	.16	1.54	0	.51	.34	.02	0	0	.02	.02	6.76
379B	SAN GABRIEL - EAST FORK	1.09	5.25	.11	2.16	0	1.17	.34	T	0	T	.11	0	10.23
380	EL SERENO - MORGAN	.06*	3.65	.14	1.40	0	.55	.28*	.03*	0	0	.13*	.03*	6.27**
381	SANTA MONICA - OUTLOOK	0	3.17	.14	1.47	0	.32	.12	T	0	0	.26*	T	5.48**
384B	HIGHLAND PARK - SAN RAFAEL HILLS	.04	4.66	.16	1.72	0	.69	.41	0	0	0	.11*	.04*	7.83**
386C	ZUMA CANYON - OAKLEY	0	5.02	.23*	2.41	0	.86	.27	.02	T	.01	.12	.23	9.17**
387B	COVINA SEWAGE PLANT	.20	2.82	.23	1.28	0	.67	.16	.04	0	.02	.27	T	5.69
388C	PARAMOUNT - COUNTY FIRE STATION	0	1.70	.16	1.66	0	.43	.09	0	0	0	.10	0	4.14
389B	GLENDORA - BROWN	.98	3.94	.14	1.76	T	1.33	.25	.13	0	T	.17	T	8.70
390B-E	MORRIS DAM	.80	5.01	.19	2.15	0	1.57	.40	.11	0	T	.07	0	10.30
391B	MONTEBELLO - FIRE DEPARTMENT	1.01	2.22	.04	1.48	0	.52	.26	0	0	T	.16	0	5.69
394	HIGHLAND PARK - LINDSAY	.06	3.81	.16	1.40	T	.60	.37	0	0	0	.07	0	6.47
395B	OLIVE VIEW SANITARIUM	T	4.73	.27	1.74	.04	.72	.61	T	0	.02	.79	0	8.92
402	CEDAR SPRING - STATE PRISON CAMP	1.44	8.48	.72	2.89	0	1.91	.55	0	0	0	1.26	0	17.25
405B	SOLEDAD CANYON - ECKLES	.02	3.56	.23	.72	.03	.29	T	0	0	0	.35	0	5.20
406C	WEST AZUSA - AZUSA IRRIGATION CO. PLANT NO. 6	.15	3.00	.20	1.47	0	1.12	.12	.06	0	0	.07	0	6.19

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1960-61

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
407-E	NEWHALL - U.S.F.S. HEADQUARTERS	0	5.22	.12	2.09	0	.83	.61	.05	0	.05	0	.15	9.12
409	RIDGE ROUTE - STATE HIGHWAY MAINTENANCE STATION	0	4.10	.15	1.35	0	.08	.03	0	0	0	.15	0	5.86
415	SIGNAL HILL - CITY HALL	0	1.40	.09	1.16	0	.40	.08	0	.03	0	.06	.04	3.26
419B	SANTA CLARA RIDGE - MT. GLEASON	.55	5.96	.47	2.24	.01	.76	.33	0	0	0	.26	0	10.58
420C	ACTON - COLOMBO RANCH	T	3.11	.30	.71	0	.55	0	0	0	0	.14	0	4.81
422F	PACOIMA CANYON	T	6.36	.49	1.86	.09	.82	.51	T	0	0	.68	.10	10.91
423A	ACTON - ALISO CANYON	.23	4.02	.27	.76	0	1.07	.36	0	0	0	.93	0	7.64
425B-E	SAN GABRIEL DAM	.93	6.05	.21	2.26	0	1.53	.53	.05	T	T	.01	T	11.57
427B	DOWNEY - JORDAN	.04	1.74	.08	1.37	.02	.43	.12	0	T	T	.24	.01	4.05
432	SANTA ANITA - FERN LODGE	.26	4.81	.36	2.82	0	1.06	.68	.14	0	0	.04	.01	10.18
433C	FAIR OAKS DEBRIS BASIN	.39	4.72	.22	1.99	T	.71*	.53*	.06*	0	0	.03	.07	8.72*
434	MALIBU - DIVISION HEADQUARTERS	0	3.57	.10	1.76	0	.31	.25	.02	0	0	.10	.02	6.13
435	MONTE NIDO	0	3.83	.15	1.91	0	.83	.32	0	0	0	.22	0	7.26
436B	HANSEN DAM	0	4.11	.10	1.32	.01	.30	.29	0	0	0	.32	.03	6.48
437	HAMILTON BOWL - LONG BEACH	0	1.24	.10	.94	0	.34	.07	0	.03	0	.04	.07	2.83
440B	CHILAO - U.S.F.S. CAMP	.55	6.12	.29	2.24	T	.61	.15	0	0	0	.82	0	10.78
441D-E	PALMDALE - COUNTY ROAD MAINTENANCE YARD	.14	1.13	.06	.33	0	.52	.03	0	0	0	.79	0	3.00
442B	MESCAL CREEK - FORT TEJON ROAD	.05	1.42	.07	.20	0	.49	0	0	0	.20	1.54	0	3.97
443B	LATIGO CANYON - BEACH RANCH	0	6.46	.21	2.43	0	.80	.46	.01	0	.01	.05	.18	9.61
444C	ROLLING HILLS	0	3.28	.13	1.29	0	.50	.10	0	0	0	0	.03	5.33
445B	LIVE OAK DAM	.73	3.49	.11	1.26	0	1.33	.24	.12	0	0	.52	0	7.80
446	ALISO CANYON - OAT MT.	0	4.83	.25	2.29	0	1.05	.68	.02	0	0	.06	.15	9.33
447B	LAS FLORES PATROL STATION	0	2.91	.22	1.83	0	.65	.12	0	.01	0	.18	.36	6.28
449B	EATON WASH DAM	.18	3.40	.30	1.73	T	.83	.45	.03	0	0	T	.02	6.94
451B	CASTAIC PATROL STATION	0	2.69	.15	1.10	0	.43	.40	0	0	.06	.25	0	5.08
453B	DEVIL'S GATE DAM	.11	4.09	.11	1.92	T	.78	.47	.02	0	0	.08	.04	7.62
455B	LANCASTER - STATE HIGHWAY MAINTENANCE STATION	.15*	1.04	.02	.32	T	.40	T	0	0	0	T	0	1.93**
456	PIUTE BUTTE	0	.70	0	.15	0	.19	T	0	0	.10	1.18	0	2.32
458	ZUMA CANYON PATROL STATION	0	2.06	.24	1.34	0	.70	T	T	T	0	.10	.05	4.49
460B	PLEASANT VIEW MESA - NEAL	0	2.21	0	.38	0	.60	0	0	0	0	.59	0	3.78
461	BALDWIN HILLS - STANDARD OIL FIELD OFFICE	.02	2.93*	.18	1.30	T	.43	.16*	0	0	0	.21	.01	5.24*
462B	HILLCREST COUNTRY CLUB - LOS ANGELES	.06	3.32	.38	1.70	.05	.38	.25	0	0	0	.28	0	6.42
463B	MAR VISTA SO. CALIFORNIA WATER CO.	0	2.89	.10	1.14	T	.39	.29	0	0	0	.14	0	4.95
465C	SEPULVEDA DAM	0	3.74	.11	1.82	T	.28	.36	0	0	0	.43	T	6.74
466B	PACOIMA CANYON - DUTCH LOUIE CANYON	.06	5.93	.21	1.83	.09	.93	.49	.02	0	0	.34	T	9.90
468	PICKENS DEBRIS BASIN	.14	4.95	.26	2.25	0	.89	.92	0	0	0	.09	.06	9.56
470	TUJUNGA - MILL CREEK	.30	3.33	.23	.90	0	.91	.33	0	0	0	3.13	0	9.13
471	LITTLE TUJUNGA - GOLD CREEK	0	5.59	.47	1.39	.06	.65	.32	0	0	0	.27	.04	8.79
474B	SOUTH GATE - FIRE DEPARTMENT	0	2.99	.10	1.04	.04	.85	.01	0	.05	0	.15	.02	5.25
475	SAUGUS - NEWHALL LAND AND FARMING COMPANY	0	3.49	.04	1.19	0	.32	.10*	.09	0	.02	.08	.01	5.34**
476D	TRIUNFO CANYON	0	3.36	.10	1.74	0	.45	.29	.01	0	0	.05	0	6.00
477C	SANTA ANITA - SPRING CAMP	.60	6.66	.29	4.00	0	1.38	.60	.10	0	.05	.20	.08	13.96
478	VALYERMO - U.S.F.S. HEADQUARTERS	.01	2.39	.04	.26	T	.49	.01	0	0	0	.92	0	4.12
480B	TEMPLE CITY FIRE STATION	.04	3.21	.09	1.45	.01	.53	.13	T	0	0	T	0	5.46
482	LOS ANGELES - U.S.C.	.03*	2.85	.13	1.59	0	.50*	.11	T	0	0	.16	T	5.37**
486B	COLDWATER CANYON - WIDMAN RANCH	1.50	5.65	.27	1.82	T	1.42	.68	.20	0	T	.69	.12	12.35
488B	KAGEL CANYON PATROL STATION	0	4.29	.15	1.32	.13	.42	.47	.03	0	0	.72	.01	7.54
489	COLD CREEK - STUNT'S RANCH	T	4.78	.04	2.60	0	.55	.39	.05	T	T	.57	.01	8.99
490	LANCASTER - WILEY RANCH	.09	1.06	0	.15	0	.14	0	0	0	0	.55*	0	1.99*
491B	PACIFIC PALISADES	0	4.57	.25	1.75	0	.78	.11	.01	0	0	.09	.07	7.63
492	CHILAO - STATE HIGHWAY MAINTENANCE STATION	.55	5.29	.27	2.17	0	.60	.17	0	0	0	.81	0	9.86
493B	SAND CANYON - BARRUS	.02	5.65	.24	1.38	.02	.72	.17	.03	0	T	.17	.05	8.45
497	CLAREMONT - SLAUGHTER	.76	3.21	.18	1.13	0	1.19	.17	.08	0	0	.35	0	7.07
498	ANGELES CREST HIGHWAY - DARK CANYON TRAIL	.26	5.47	.33	1.91	.01	.82	.62	.01	0	0	.05	.08	9.56
508C	ARROYO SECO - RANGER STATION	.12	5.15	.05	1.94	.03	.79	.54	T	0	0	.05	.07	8.74
517B	ANDERSEN RANCH (LEWIS RANCH)	.23	4.47	.14	.91	0	.75	0	0	0	0	1.89	0	8.39
519B	ELIZABETH LAKE - STRANDBERG	0	4.14	.27	1.24	T	1.30	.45	T	0	T	.90	T	8.30
542-E	FAIRMONT	.02	3.47	.51	1.10	0	.65	.17	T	0	0	.64	0	6.56
551	HUENEME LIGHTHOUSE	.02	4.39	.33	1.00	0	.99	.20	.06	0	0	.03	.14	7.16
564C	LLANO	0	2.15	0	.20	0	.47	0	0	0	0	1.64	0	4.46
565B	LONG BEACH - CITY AUTOMATIC	T	1.60	.08	1.60	T	.28	.09	T	.11	0	0	0	3.76
566	LONG BEACH NO. 1	T	1.40	.09	1.06	T	.42	.12	T	.02	0	0	0	3.11
571C	LONG BEACH NO. 6	T	1.48	.10	.77	T	.47	.12	T	.02	0	0	0	2.96
575C	LONG BEACH WEATHER BUREAU	T	1.47	.13	1.26	T	.36	.07	T	.05	T	.07	.05	3.46
577F	LOS ANGELES (U.S.W.B.) - FEDERAL BUILDING	.01	2.10	.15	1.28	.15	.57	.29	T	T	T	.03	.05	4.93
587B	SAN ANTONIO CANYON POWER HOUSE NO. 1	.94	4.71	.14	1.92	0	2.00	.37	.15	0	0	.32	.02	10.57
588D	MOUNT LOWE	.23	6.03	.48	2.13	0	.99	1.04	.26	0	0	.08	.18	11.42
593B	NEWHALL RANCH	0	3.68	.14	1.48	0	.64	.29	.02	0	0	.08	.03	6.36
598	NEENACH	0	2.24	.08	.65	0	.64	0	T	0	0	1.59	0	5.20
610A	PASADENA - JONES	.08	3.90	.21	1.74	0	.74	.51	0	0	0	.03	.05	7.26
610B	PASADENA - CITY HALL	.11	4.07	.16	1.51	T	.88	.45	T	0	0	.06	.04	7.28
611C	ALTADENA GOLF COURSE	.08	3.91	.22	1.77	0	.78	.51	.02	0	0	.04	.06	7.39
612	PASADENA - CHLORINE PLANT	.15	4.97	.07	1.85	.01	.80	.55	.03	0	0	.19	.05	8.67
613B	PASADENA - HURLBUT FIRE STATION	.10	3.75	.16	1.47	0	.71	.61	.01	0	0	.11	.05	6.97
617B	POMONA - ADAMSON	.78	2.63	.19	1.16	.04	1.22	.17	T	0	T	.09	0	6.28
618B	TAPO CITRUS ASSOCIATION	0	3.41	.17	1.16	0	.30	0	0	0	0	0	0	5.04
619	SAN ANTONIO CANYON - SIERRA POWER HOUSE	1.37	5.63	.28	2.21	0	1.76	.40	.05	0	0	1.53	0	13.23
627	SAN GABRIEL CANYON POWER HOUSE	.36	4.08	.13	2.00	0	1.22	.30	.20	0	T	.24	T	8.53
629C	SAN PEDRO U.S.W.B.	0	2.01	.06	1.34	0	.60	.10	T	0	0	.09	.04	4.24
634C	SANTA MONICA - CITY HALL	0	3.73	.15	1.63	0	.56	.17	T	0	T	.26	T	6.50
644	SOMIS - SNYDER RANCH	0	4.16	.21	.87	0	.60	0	0	0	0	.03	.05	5.92
660B	OXNARD	.30	4.43	.45	1.21	.01	.86	.01	.03	0	0	T	T	7.30
662B	LONG BEACH - KEEVER AVENUE	T	1.78	.08	1.55	T	.24	.04	T	.01	0	0	0	3.70
666C	LONG BEACH - NEECE STREET	.02	2.32	.17	1.30	T	.38	.05	T	.01	0	0	0	4.25
672	EAGLE ROCK S.C.E. CO. SUBSTATION	.17	5.25	.15	1.65	0	.78	.34	0	0	0	.07	.05	8.46
673C	SEAL BEACH - POWER PLANT	0	1.85	.11	.77	0	.46	.05	0	0	0	.01	.01	3.26
676	LOS ANGELES - WEST 80TH STREET	T	2.81	.21	1.04	0	.46	.06	T	0	0	.11	.02	4.71
678	PASADENA - SHELDON RESERVOIR	.14	4.26	.14	1.82	.01	.76	.45	.01	0	0	.11	.05	7.75
679	PUENTE-NORTH WHITTIER HEIGHTS CITRUS ASSOCIATION	.32	2.53	.13	1.31	0	.56	.29	.02	.06	.02	.16	0	5.40
680B	WESTWOOD - U.C.L.A.	T	3.30	.30	1.47	0	.77	.28	.03	T	T	.23	.05	6.43
681A	SIERRA MADRE RANGER STATION	.69	4.21	.25	1.88	0	.94	.41	.26	0	0	T	T	8.64
683	SUNSET RIDGE GUARD STATION	.14	4.17	.12	1.53	0	.72	.53	0	0	0	.03	.04	7.28
691B	SAN ANTONIO SPREADING GROUNDS	.95	4.07	.13	1.62	0	1.79	.33	.15	0	0	.12	0	9.16
695	TUJUNGA CANYON - VOGEL FLAT	.62	5.74	.59	2.32	T	.79	.48	0	0	0	.14	.01	10.70
703	GLENDALE - MC INTYRE	.08	3.63	.07	1.54	0	.70	.38	0	0	0	.04	.03	6.47
705	ALDER CREEK - PARADISE RANCH	T	4.78	.35	1.21	.05	.56	.25	.03	0	0	.48	.04	7.75
716	L.A.W.D. - DUCOMMUN STREET	.03	2.76	.15	1.50	.18	.62	.32	0	0	0	.01	.02	5.59
718B	THOUSAND OAKS	0	3.49	.12	1.14	0	.43	.20	T	0	0	.03	.14	5.55
720	SIMI VALLEY - FORSON RANCH	0	4.00	.15	1.70	0	.50*	.25*	0	0	0	0	0	6.60*
722C	BELLEVIEW - STRATMAN	.24	1.74	.04	.36	T	.93	.37	0	0	0	.45	0	4.13
724	BIG DALTON - MONROE CANYON FLUME	.87	INC.	.15	INC.	0	1.63	.41	.16	0	T	.03	.03	INC.
725	BIRMINGHAM HOSPITAL	0	4.27	.05	2.03	0	.30	.28	0	0	0	.16	0	7.09
726B	ANGELES CREST - GUARD STATION	.20	5.90	.14	2.01	.01	.79	.86	.07	0	0	.11	.10	10.19
727	NEWCOMB PASS	.60*	5.23	.46	3.90	0	1.50	.78	.07	.11	.02	.18	.08	12.93**
728	PACOIMA CANYON - CITY ROAD GAGE	.20	9.12	.67	1.83	.14	.90	.52	.07	0	0	.25	.09	13.79
730	MILLARD CANYON - DAWN MINE	.25	5.57	.28	2.00	.03	.89	.55	T	0	0	T	.08	9.65
731	OAK GROVE HEADQUARTERS - USFS FLOOD CONTROL	.13	4.29	.08	2.00	T	.64	.31	T	0	0	.11	T	7.56
732B	ROBERT'S CANYON - SAN GABRIEL WEST FORK DIVIDE	1.25	6.74	.24	2.54	0	1.81	.71	.17	0	0	.07	.02	13.55
734B	LOS ANGELES MUNICIPAL AIRPORT	T	2.67	.06	1.27	T	.46	.02	T	T	.01	.30	.04	4.83
735C	BELL CANYON - DRY GULCH RANCH	0	2.88	.10*	1.31	0	.53	.29	T	0	0	.42	0	5.53**

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1960-61

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
737	UPPER SESPE - CHORO GRANDE RANCH	0	7.50	1.10	2.60	T	.50	.20	T	0	0	.52	0	12.42
739	SANTA PAULA - LIMONEIRA RANCH	0	4.24	.40	1.37	0	.44	.02	T	T	0	0	.05	6.52
740B	SAN DIMAS CANYON - FERN NO. 2	1.36	INC.	.27	2.68	T	1.74	.45	.28	0	T	.74	.12	INC.
741	SAN DIMAS CANYON - UPPER EAST FORK	.86	4.87	.30	1.83	T	1.79	.56	.22	0	T	.25	.06	10.74
742C	SAN GABRIEL - FIRE DEPARTMENT	.01	3.32	.14	1.43	T	.88	.25	0	0	0	.08	.02	6.13
746	MOJAVE - BACKUS RANCH	0	1.24	.01	.29	0	.05	0	0	0	N.R.	N.R.	0	INC.
747	SANDBERG - AIRWAYS STATION	0	3.91	.09	1.24	.52	.53	.09	.16	0	0	.53	0	7.07
749	BURBANK - U.S.W.B.	.01	3.25	.14	1.64	.03	.59	.48	T	T	0	.27	.03	6.44
750	PALMDALE - F.A.A. STATION	.23	.87	.01	.18	.07	.53	.01	0	0	0	.32	0	2.22
751B	TORRANCE - FIRE DEPARTMENT	T	2.17	.03	1.09	0	.37	.22	.01	0	0	.24	.06	4.19
755	GRIFFITH PARK - LITTLE CANYON	.03*	3.01	.15	1.68	0	.50	.35	0	0	0	.08*	.04*	5.84**
756	GRIFFITH PARK - UPPER SPRING CANYON	.03*	3.24	.07	1.85	0	.45	.35*	0	0	0	.10*	.04*	6.13**
757	GRIFFITH PARK - FERN DELL	0	3.15	.11	1.77	0	.40	.33	0	0	0	.14*	.02*	5.92**
758	GRIFFITH PARK - LOWER SPRING CANYON	0	3.15	.15	1.85	0	.55	.30*	0	0	0	.10*	.02*	6.12**
759B	NICHOLS DEBRIS BASIN	0	3.24	.48	1.50	.03	.54	.43	0	0	0	.16	0	6.38
760	STUDIO CITY - 3913 GOODLAND AVENUE	0	3.30	.15	2.28	0	.40	.47	0	0	0	.40*	.02*	7.02**
762	UPPER STONE CANYON	0	3.74	.14	1.95	0	.40	.38	0	0	0	.44*	.05*	7.10**
763B	SEPULVEDA CANYON - EAST FIRE ROAD NO. 19	0	4.37	.16	2.01	0	.45	.37	0	0	0	.38*	.05*	7.79**
764	STONE CANYON - 2302 RIAL LANE	0	4.03	.20	2.00	0	.65	.43	0	0	0	.38*	.05*	7.74**
765B	15801 MULHOLLAND DRIVE	0	4.92	.12	2.46	0	.41	.48	0	0	0	.49*	.02*	8.90**
766	MANDEVILLE FIRE ROAD NO. 24	0	INC.	.10*	1.87	0	.35*	.38	0	0	0	.49*	.02*	INC.
767	3351 MANDEVILLE CANYON ROAD	0	5.15	.14	2.28	0	.52	.37	0	0	0	.49*	.02*	8.97**
768	SULLIVAN CANYON - FIRE ROAD NO. 26	0	4.86	.09	2.13	0	.33	.60	0	0	0	.49*	.02*	8.52**
769	SANTA YNEZ CANYON-TESEMCAL FIRE ROAD NO. 30	0	3.82	.09*	2.42	0	.25	.57	0	0	0	.50*	.05*	7.70**
770	SANTA YNEZ CANYON - PASEO MIRAMAR	0	3.63*	.19	INC.	0	.65*	.20*	0	0	0	.25*	.02*	INC.
771	RUSTIC CANYON - SANTA MONICA	0	4.14	.21	1.60	.05	.55	.10	0	0	0	.19*	.07*	6.91**
772	LOS ANGELES - ECHO PARK AND LUCRETIA	0	2.97	.14	1.65	.15	.32	.35	0	0	0	.04*	0	5.62**
774	BARLOW SANITARIUM	0	2.60	.10	1.42	.23	.30	.35	0	0	0	.04*	0	5.04**
776	NICHOLS CANYON - MULHOLLAND DRIVE	0	3.24	.47	2.02	0	.98	.70	0	0	0	.25*	.05*	7.71**
777	KENTER CANYON - 259 N. KENTER	0	4.12	.28	1.55	0	.74	.25	0	0	0	.30*	.02*	7.26**
778B	SEPULVEDA CANYON - 11817 BELLAGIO ROAD	0	4.29	.31	2.15	0	.81	.40	0	0	0	.40*	.02*	8.38**
779	GRIFFITH PARK - LOWER MINERAL WELLS	0	3.30	.15	1.95	0	.50	.25	0	0	0	.13*	0	6.28**
780	GRIFFITH PARK-UPPER MINERAL WELLS	0	3.35	.18	1.93	0	.50	.28	0	0	0	.13*	0	6.37**
783	COON CANYON	.10	5.02	.08	1.78	.01	.80	.54	.03	0	0	.08	.06	8.50
784	COON CANYON	.10	4.50	.05	1.62	.01	.83	.54	T	0	0	.09	.07	7.81
785	COON CANYON	.12	5.35	.08	1.89	.01	.86	.67	T	0	0	.11	.10	9.19
786	COON CANYON	.15	4.41	.07	1.46	.01	.81	.57	T	0	0	.05	.10	7.63
787	COON CANYON	.19	5.07	.09	1.82	.01	.85	.70	T	0	0	.09	.11	8.93
788	COON CANYON	.13	4.49	.07	1.75	.02	.79	.69	T	0	0	.15	.10	8.19
789	EL PRIETO CANYON	.21	5.29	.11	1.83	.01	.94	.77	T	0	0	.07	.14	9.37
790	FILLMORE CITRUS ASSOCIATION	0	4.21	.32	1.60	0	.45	.10	0	0	0	0	0	6.68
791	SATICOY - BUENA VENTURA LEMON ASSOCIATION	0	4.48	.41	1.16	0	.69	0	0	0	0	0	0	6.74
792	SANTA PAULA - COUNTY AGRICULTURAL OFFICE	0	4.16	.55	1.41	0	.45	.13	0	0	.01	.06	.04	6.81
793	MARKHAM SADDLE	.44	5.84	.60	2.35	.03	1.11	.57	.02	0	0	.05	T	11.01
794-E	LOWER FRANKLIN RESERVOIR	0	3.47	.46	1.55	.01	.59	.25	0	0	0	.19	.03	6.55
795	PASADENA - JOURDAN	.15	3.50	.20	1.52	.01	.87	.31	0	0	0	.01	.04	6.61
796	FIRE DEPARTMENT - ELYSIAN PARK	0	2.39	.13	1.44	.10	.33	.38	0	0	0	.04*	0	4.81**
797	DE SOTO RESERVOIR	0	3.15	.13	1.65	0	.61	.42	T	0	0	.29	.02	6.27
799	BALDWIN HILLS RESERVOIR	.11	2.73	.19	1.31	.02	.41	.16*	0	0	T	.12	.05	5.10**
801	MAGIC MOUNTAIN	0	6.70	.63	1.69	.08	.53	.30	0	0	0	.36	0	10.29
802B-E	EAGLE ROCK RESERVOIR	.23	4.40	.12	1.47	0	.82	.28	T	0	0	.11	.03	7.46
807	ASCOT RESERVOIR	.06	3.54	.11	1.43	.01	.58	.29	.03	0	0	.13	.03	6.21
1000	HUNT CANYON - BONES RANCH	.05	1.86	.10	.42	01	.50	T	0	0	0	.93	0	3.86
1005	MINT CANYON - THE OAKS	.05	2.68	.15	.45	.02	.93	.30	0	0	0	.60	0	5.18
1006	SAN PEDRO - CITY RESERVOIR	0	1.95	.15	1.08	0	.47	.09	0	0	0	0	.03	3.77
1007C	CAMP VALCREST	.58	5.44	.41*	1.73	0	.76	.28	0	0	0	.87	0	10.07**
1008-E	LA FRESA - S.C.E. CO.	0	2.56	.13	1.04	0	.59	.06	.01	0	0	.16	0	4.55
1009	MINT CANYON - DYER	T	3.56	.16	.70	T	.33	04	.02	0	0	.14	0	4.95
1010B	PALMER CANYON - FORKS	1.01	4.75	.18	2.03	0	1.81	.37	.30	0	0	.06	0	10.51
1011B	PALOS VERDES FIRE STATION	0	2.81	.22	1.24	0	.80	.21	.01	.05	0	.07	.12	5.53
1012	CASTAIC JUNCTION	0	2.95	.10	1.06	0	.40	.26	T	0	0	.19	0	4.96
1013B	TUJUNGA CANYON ABOVE GOLD CANYON	.06	5.49	.30	1.45	0	.48	.25	T	0	0	.04	0	8.07
1014D-E	RIO HONDO SPREADING GROUNDS	.17	2.05	.06	1.31	0	.31	.16	0	0	0	.23	0	4.29
1016	PALO COMADO CANYON - AGOURA	0	3.33	.15	1.28	0	.73	.34	0	0	0	.24	0	6.07
1017B	LITTLE ROCK CREEK ABOVE DAM	0	1.85	.07*	.31	0	.67	.03	0	0	0	.77	.20	3.90**
1018B	SANTA SUSANA MTS. - DEVIL CANYON	0	5.54	.26	2.78	.05	.84	.67	.14	0	0	.01	.20	10.49
1019	SANTA SUSANA MTS. - SALT CANYON	0	4.39	.17	2.30	0	.86	.59	.03	0	0	.16	.06	8.56
1020	PADUA HILLS PATROL STATION	.99	4.17	.12	1.57	T	1.69	.30	.13	0	T	.07	0	9.04
1021C	YERBA BUENA WATER TANK	0	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	INC.
1022	HASLEY CANYON - WESTERN GULF OIL	0	3.33	.15	1.41	T	.50	.38	.01	0	0	.20	0	5.98
1023B	GARRAPATA CANYON - SPEER	0	3.78	.08	1.93	0	.47	.33	T	T	T	.69	.05	7.33
1025	MALIBU BEACH - DUNNE	0	1.94	.37	1.54	T	.48	.08	0	0	0	.15	.09	4.65
1028C	CORRAL CANYON - CRUMP	0	3.35	.24	1.97	0	1.16	.25	.09	0	0	.08	.22	7.36
1029	TUJUNGA-MILL CR. SUMMIT	.28	3.82	.22	1.15	0	.92	.29	0	0	0	2.52	0	9.20
1030	MT. ISLIP - LITTLE JIMMY SPRINGS	.77	9.54	1.11	3.02	0	1.80	1.03	0	0	0	1.81	0	19.08
1031B	MT. WATERMAN	1.03	7.23	.26	2.06	0	.77	.05*	0	0	0	.64	0	12.04**
1035	WHITTIER - WOOD	.08	2.29	.14	1.62	0	.80	.25*	0	.06	0	.18	.02	5.44**
1037-E	ARCADIA - ARBORETUM	.12	3.64	.15	1.60	.01	1.02	.31	.01	0	0	T	.03	6.89
1038	MT. PACIFICO	.04	3.12	.16	.54	0	.69	.14	0	0	0	.77	0	5.46
1039B	LOS ANGELES - MAC QUEEN	0	3.18	.21	1.46	0	.43	.23	0	0	0	.08	T	5.59
1040	POTRERO CANYON - SUNRAY OIL	0	3.21	.11	1.09	0	.35	.10	T	0	0	0	0	4.86
1041B	SANTA FE DAM	.10	2.89	.09	1.24	0	.77	.09	0	0	0	.05	T	5.23
1042	EASTFIELD GATE-ROLLING HILLS	0	4.36	.20	1.54	0	.88	.12	0	0	0	0	.06	7.16
1043	EAST CREST GATE-ROLLING HILLS	0	3.13	.19	1.68	0	.94	.33	0	0	0	0	.18	6.45
1044	PORTUGUESE BEND	0	1.83	.09	.97	0	.38	.08	0	0	0	0	.08	3.43
1045B	WEST GATE - ROLLING HILLS	0	2.48	.11	.88	0	.50	.05	0	0	0	0	.10	4.12
1046B	BIG SANTA ANITA-CHANTRY FLAT	.35	5.70	.40	2.46	0	1.26	.72	.40	0	0	T	.02	11.31
1048B	LA CRESCENTA - CO. ROAD DEPARTMENT	.12	4.67	.43	2.22	0	.68	.71	T	0	0	.04	.02	8.89
1050	OLD TOPANGA CANYON - GRAY	0	4.09	.12	2.35	0	.47	.32	.05	0	0	.36	.12	7.88
1051	CANOGA PARK - PIERCE COLLEGE	0	3.27	.09	1.97	0	.41	.26	.01	T	0	.51	T	6.52
1052	CAMP JOSEPHO	T	5.92	.22	2.03	0	.78	.27	0	0	0	.39	.07	9.68
1053	TUJUNGA CANYON - SOLOMON	.05	4.33	.21	1.42	.01	.40	.34	0	0	0	.41	0	7.17
1054	VETERAN'S HOSPITAL - SAN FERNANDO	0	4.39	.32	1.34	.10	.73	.53	.10	0	0	.82	.18	8.51
1055B	MT. BALDY NOTCH	1.90	6.42	.50	1.33	0	1.70	.40	.05	0	T	.78	0	13.08
1056	LANCASTER - MC CARGAR	0	.97*	0	.17	0	.03	0	0	0	0	.25	0	1.42*
1057B	WHITTIER NARROWS - ABOVE DAM	.53	2.58	.16	1.38	0	1.15	.19	T	.03	T	.11	.02	6.15
1058	PALMDALE 2 N. E.	.19	.82	.04	.23	0	.36	.02	0	0	0	.07	0	1.73
1059B	SOUTH HAWKINS	1.06	7.60	.46	2.19	0	1.09	.17	.03	0	0	.52	0	13.12
1060	LITTLE ROCK - SYCAMORE CAMP	.10	3.51	.17	.60	0	.76	.16	0	0	0	.51	0	5.81
1062	BUCKHORN FLAT	1.13	7.64	.66	2.72	T	.89	.13	T	0	.01	.65	0	13.83
1063	SOLEDAD PASS	.05	1.83	.17	.40	0	.66	.03	0	0	0	1.48	0	4.62
1064	SAN GABRIEL EAST FORK - DOT MINE	1.23	4.87	.06	1.65	0	1.16	.27	0	0	0	.46	0	9.70
1066B	LONG BEACH - LEES STREET	T	1.24	.08	.70	T	.35	.10	T	.02	0	0	0	2.49
1067	SANTIAGO CANYON	0	3.01	.11	.36	0	.51	.16*	0	0	0	1.34*	0	5.49*
1068	RATTLESNAKE CANYON - CAMP NO. 3	0	4.55	.29	2.44	0	.95	.39	0	0	0	0	0	8.62
1069	SAN GABRIEL - EAST FORK TUNNEL	1.39	5.24	.25	1.62	0	1.26	.35	.11	0	0	.36	.06	10.64
1070	MANHATTAN BEACH	0	2.67	.05	.87	0	.68	.03	0	.01	0	.10	.02	4.43
1071B-E	DESCANSO GARDENS	.15	5.47	.09	2.06	0	.74	.67	.01	0	0	.12	.03	9.34
1072	LITTLE TUJUNGA RANGER STATION	0	4.29	.17*	.78	.38	.39	.47*	.08	T	0	.68	0	7.24**
1073B	PALMDALE - CIRCLE C	.03	1.37	.09	.31	T	.47	.03	0	0	T	1.20	0	3.50

SUMMARY OF MONTHLY RAINFALL IN INCHES

SEASON 1960-61

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
1074	LITTLE GLEASON	.10	4.88	.50	1.33	T	.65	.50	0	0	0	1.59	0	9.55
1075	UPPER WOLFSKILL CANYON	.72	4.83	.22	2.52	0	1.87	.61	.33	0	T	.28	.08	11.46
1076	HIDDEN SPRINGS	.19	5.52	.34	1.27	0	.52	.24	0	0	0	1.00	0	9.08
1077B	MONROVIA - 5 POINTS	.60	3.97	.21	2.02	0	1.00	.37	.15	0	0	0	0	8.32
1078	COVINA-GRIFFITH	.77	2.61	.15	1.31	0	.59	.21	.02	0	0	.10	0	5.76
1079	RUBIO DEBRIS BASIN	.25	4.26	.22	2.11	0	.77	.59	.09	0	0	.04	.11	8.44
1080B	BRADBURY DEBRIS BASIN	.42	3.52	.08	1.68	0	1.06	.23	.14	0	0	T	T	7.13
1081	DEER DEBRIS BASIN	.08	4.42	.10	1.96	0	.57	.34	0	0	0	.03	.02	7.52
1082	DUNSMUIR DEBRIS BASIN	.19	5.49	.36	2.69	0	.84	.94	.07	0	0	0	.11	10.69
1083	MADDOCK DEBRIS BASIN	.42	3.48	.12	1.70	0	1.19*	.29	0	0	0	.07	T	7.27**
1084	MAY DEBRIS BASIN	0	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	N.R.	1.02	.06	INC.
1085	MC CLURE DEBRIS BASIN	0	3.03	.13	1.45	0	.47	.59	0	0	0	0	0	5.67
1086	TURNBULL DEBRIS BASIN	.14	3.13	.07	1.50*	0	.47	.26	0	0	0	.02	.02	5.61*
1087-E	GREEN VERDUGO PUMP PLANT	0	3.70	.14	1.40	.04	.38	.32	.01	0	0	.54	.02	6.55
1088B	LA HABRA HEIGHTS WATER CO.	.45	2.56	.09	1.62	0	.59	.20*	0	0	0	.08*	.01*	5.56**
1089D	TOPANGA CANYON OUTLET	0	3.55	.32	2.01	0	.71	.16	0	0	0	.15	.07	6.97
1090	LOS ALAMITOS	0	1.61	.10	.83	0	.49	.06	0	0	0	.39	0	3.48
1091	CYPRESS	.06	INC.	.12	INC.	0	INC.	.01	0	0	T	.16	.04	INC.
1092	BUENA PARK	.02	1.59	.12	1.19	0	.40	0	0	0	0	0	0	3.32
1093-E	FULLERTON AIRPORT	.15	1.92	.11	1.27	0	.48	.01	0	0	.02	0	0	3.96
1094	BREA	.40	2.52	.18	.81	0	.72	.23	0	0	0	.03	.02	4.91
1095	ORANGE COUNTY RESERVOIR	.48	2.24	.17	.86	0	.62	.10	0	0	0	0	T	4.47
1096	LA VIDA SPRINGS	.67	2.41	.25	1.20	0	.86	0	0	0	0	0	0	5.39
1097	CARBON CANYON SUMMIT	.70	2.55	.13	1.25	0	1.18	.08	T	0	0	.03	.01	5.93
1098	BREA CANYON	.80	2.50	.14	1.20	0	.97	0	0	0	0	0	0	5.61
1099	WHITTIER - CATE	.32	2.18	.08	1.64	0	.52	.30	0	.08	0	.19	.02	5.33
1101	DEL SUR SCHOOL	0	1.59	.12	.49	0	.36*	T	T	0	0	.33*	0	2.89*
1102B	BOBCAT CANYON - SAN GABRIEL WEST FORK	.56	4.43	.44	1.82	0	.87	.50	0	0	0	.68	0	9.30
1104	BOUQUET CANYON - TEXAS CANYON	.12	3.57	.08	.73	0	.91	.10	0	0	0	.25*	0	5.76**
1105B	FAIRMONT	0	2.90	.17	.66	0	.40	.02	0	0	0	.43	0	4.58
1106	ANTELOPE VALLEY FIELD STATION	0	1.60	.05	.51	0	.42	T	T	0	0	.33	0	2.91
1107C	LA TUNA CANYON	0	3.87	.18	1.46	.09	.49	.49	0	0	0	.51*	.03*	7.12**
1108	ANAVERDE - PLATT	.14	1.80	.05	.40	0	.85	.03	0	0	0	1.27	0	4.54
1109	MT. BALDY	2.08	7.32	.57	1.52	0	1.94	.92	.08	0	0	.52	0	14.95
1110	SCHOLL DEBRIS BASIN	.20	4.14	.12	1.59	0	.73	.36	0	0	0	.09	.09	7.32
1111B	PUNCHBOWL RANCH	.25	5.43	.16	.75	0	.76*	0	0	0	0	.98	0	8.33**
1112	BEAR CANYON - SAN GABRIEL WEST FORK	1.61*	7.21	.09	2.16	0	1.60	.47	.04	0	T	.69	.03	13.90*
1113	DOMINGUEZ WATER COMPANY	0	2.03	.13	1.25	0	.21	.14	.05	0	.01	.24	0	4.06
1114	WHITTIER NARROWS DAM	.95	2.12	T	1.26	0	.52	.30	0	.02	0	.09	0	5.26
1115	SAN ANTONIO DAM	.93	3.93	.10	1.62	T	1.87	.37	.18	0	0	.20	0	9.20
1116	LONG BEACH - SAN ANSELINE	.02	1.31	.06	.92	T	.46	.08	T	.02	0	0	0	2.87
1117	PINE CANYON GUARD STATION	.01	5.67	.64	1.67	.01	1.35	.31	0	0	0	.10*	0	9.76**
1118	LAKEWOOD	T	1.63	.07	1.35	T	.42	.05	T	.12	0	0	0	3.64
1119	ATMORE MEADOW	0	5.32	.47	2.24	T	.76	.24	.07	0	0	.19	0	9.29
1120	DAWSON SADDLE	.77	6.70	.05	1.76	0	.52	.26	0	0	0	1.29	0	11.35
1121	BARLEY FLAT	.51	5.14	.55	2.49	T	.95	.47	0	0	0	.64	0	10.75
1122	COOKS DEBRIS BASIN	.19	4.82	.28	2.44	0	.73	.63	0	0	0	0	0	9.09
1123	CIMA MESA - FARVUE RANCH	.05	2.99	.10	.48	0	.71	.04	0	0	0	.51	0	4.88
1124	RED BOX GAP	.95	7.97	.50	3.14	0	1.01	.52**	0	0	0	.41	T	14.50**
1125	LA PUENTE	.59	2.12	.17	1.50	0	.48	.33	.10	0	0	T	T	5.29
1126	L.A.W.D. - EAST VALLEY	0	3.31	.18	1.67	.05	.44	.44	T	0	0	.38	.04	6.51
1127	WEST BURBANK	0	3.68	.26	1.99	T	.48	.37	0	0	0	.05	0	6.83
1128	WRIGHTWOOD FIRE STATION	1.00*	3.79**	.37	1.07	.05	.82	.03	0	0	0	1.72	0	8.85*
1129	NICHOLAS CANYON	T	2.56	.16	1.14	0	.90	.14	0	T	0	.04	.15	5.09
1130	PUZZLE SPRINGS RANCH	.29	1.76	.02	.45	0	.45**	T	0	0	T	2.12	T	5.09**
1131B	CHARTER OAK - JACKSON	.18	2.88	.19	1.40	0	.94	.20	0	0	0	0	T	5.79
1132	OAK FLAT GUARD STATION	T	4.97	.37	2.01	0	.55	.16	.06	0	0	.33	.04	8.49
1133	FISH CANYON	.98*	6.40	.22	3.34	0	2.26	.78	.15	0	0	.06	.02	14.21**
1135	LUNADA BAY	0	2.43	.05	1.00	0	.34	.08	.02	0	T	.06	.10	4.08
1136	DUARTE FIRE STATION	.30	3.27	.15	1.32	0	1.03	.08	.11	0	.04	T	0	6.30
1137	STOUGH PARK	0	3.02	.20*	1.80	0	.45	.65	0	0	0	.10	.09	6.31**
1138	MT. DISAPPOINTMENT	.53	7.37	.45	2.93	0	1.19	.52	.01	0	0	.23	0	13.23
1139	PALOS VERDES HILLS - HIGHRIDGE	0	3.77	.25	1.59	0	.84	.14	0	0	0	0	.17	6.76
1140	ROSEMEAD	.03	2.99	.09	1.23	0	.56	.14	0	0	T	T	T	5.04
1141	BEE CANYON	0	2.99	.12	.50	T	.21	.03	0	0	0	.27	.02	4.14
1142	SOLEDAD CANYON - BERMITE POWDER CO.	0	3.53	.04*	1.08	0	.30	.12	0	0	0	.35	0	5.42**
1143	LITTLE TUJUNGA-GOLD CREEK	T	4.71	.28	1.14	.05	.40	.40	T	0	0	.30	.07	7.35
1144	SAN GABRIEL-NORTH FORK	.93	5.54	.08	2.23	0	1.01	.38	T	0	0	.47	0	10.64
1145	UPLAND	1.10	3.20	.11	1.09	.01	1.50	.22	.07	0	T	.05	0	7.35
1146	SANTA ANITA CANYON HELIPORT	N.I.	N.I.	N.I.	N.I.	0	1.08	.84	.12**	0	0	.04	.05	INC.
1147	EL CABALLERO COUNTRY CLUB	0	4.14	.05	2.22	0	.37	.43	0	0	0	.18	0	7.39
1148	SAN JOSE HILLS - GALSTER RANCH	.95*	2.50*	.18*	1.30*	0	.56	.21	0	0	0	.28	0	5.98*
1149	SUNLAND	T	4.34	.20	1.43	.03	.43	.51	.03	0	0	.13	.04	7.14
1150	LOPEZ CANYON GUARD STATION	INC.	INC.	INC.	INC.	INC.	INC.	INC.	INC.	0	0	.55	.05	INC.
X12C	WILSONA	.03	.51	.01	.05	.05	.18	T	0	0	0	.43	0	1.26
X15	HI VISTA - CARO	.30	.80	T	.15	0	.10	0	0	0	T	.76	0	2.11
X19	COOKS CANYON	.23	5.30	.31	2.16	T	.63	.61	.02	0	0	T	.09	9.35
X21	DUNSMORE CANYON - UPPER	.29	5.39	.28	2.58	T	.83	.40	.04	0	0	T	.06	9.87
X22	ISLIP SADDLE	.90	7.47	.30	1.80	0	1.28	.44	0	.06	0	.37	0	12.62
X23	DORR CANYON	1.32	6.75	.44	2.00	0	1.38	.12	0	0	0	.94	.03	12.98
X24	GRASSY HOLLOW	.88	3.37	.38	1.50	0	1.50	.22	0	0	0	1.53	.16	9.54
X25	BEAR GULCH	1.24	5.00	.56	1.37	0	1.51	.43	0	0	0	2.69	.25	13.05
X26	BLUE RIDGE	.90	4.75	.12	1.44	0	1.38	.18	0	0	0	2.25	.19	11.21
X27	GUFFYS CAMP	.99	5.43	.38	1.37	0	1.32	.28	0	0	0	2.03	.25	12.05
X28B	HOLIDAY HILL	1.10	5.17	.20	1.15	0	1.20	.24	0	0	0	3.22	0	12.28
X29	PINE MT.	1.64*	7.35	.21	4.05	0	1.78	.91	.17	0	0	.07	.02	16.20*
X30	ANGELES CREST - GRIZZLY	.27	5.87	.35	2.17	.01	.95	.74	.01	0	0	.02	.12	10.51
X31	LUKENS DISPOSAL AREA	.23	5.92	.14	2.57	T	.85	1.16	.15	0	0	.11	.11	11.24
X32	HAY DEBRIS BASIN	.15	5.48	.12	2.21	0	.86	.88	0	0	0	.06	.09	9.85
X33	EAGLE DEBRIS BASIN	.09	4.65	.38	1.98	0	.71	.67	0	0	0	.01	.03	8.52

LEGEND

* ESTIMATE > 10% OF TOTAL
** ESTIMATE < 10% OF TOTAL

INC. INCOMPLETE RECORD
N.I. NOT INSTALLED
N.R. NO RECORD

TABLE VII

RAIN GAGE STATION LOCATION

SEASON 1959-60

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. OF GAGE	NORTH LAT. °	'	"	WEST LONG. °	'	"	OBSERVER	LOCATION
2D	SA	22-25	1050	34	02	55	118	46	25	DAVID HELLER	ESCONDIDO CANYON, 3 MILES ABOVE PACIFIC COAST HIGHWAY
3B	S	34-09	975	34	06	20	118	47	29	V.M. WARD	SEMINOLE HOT SPRINGS - LA SIERRA CANYON AT CORNELL
5B	S	35-64	924	34	09	24	118	38	14	TOM FARMER	4803 EL CANON AVENUE, CALABASAS
6	SA	24-01	745	34	05	03	118	35	57	FIRE STATION PERSONNEL	0.5 MILE SOUTH OF TOPANGA POST OFFICE, 401 S. TOPANGA BOULEVARD
9B	SP	48-36	828	34	13	52	118	28	04	WALT WILDING	8845 SEPULVEDA BOULEVARD, SEPULVEDA
10	SA	25-51	540	34	05	11	118	26	45	T.J. LE BLANC	701 STONE CANYON ROAD, WEST LOS ANGELES
11C	SP A	37-87	867	34	07	14	118	24	38	H. KING	UPPER FRANKLIN CANYON RESERVOIR, 2300 FRANKLIN CANYON ROAD
12	S	37-97	1100	34	07	45	118	24	20	S.J. WALTMAN	12601 MULHOLLAND HIGHWAY AT FRANKLIN CANYON
13B	S	38-34	593	34	09	23	118	21	56	KATIE BLIX	10834 WEST BLIX STREET, NORTH HOLLYWOOD
14B	SP	49-46	1100	34	14	19	118	21	33	E.S. MERRILL	10459 TUXFORD STREET, SUN VALLEY
15	SA	37-41	695	34	10	48	118	27	03	L. SWINNEY	14601 AETNA AVENUE, VAN NUYS
17	S	37-06	1425	34	07	51	118	29	26	L.A.F.D. PERSONNEL	16500 MULHOLLAND DRIVE, WEST OF SEPULVEDA CANYON
18C	S	36-63	790	34	10	06	118	32	07	J.S. MAGNUSON	18448 VENTURA BOULEVARD, RESEDA
18D	S	36-64	850	34	09	28	118	32	04	N. DEL SELVA	5011 NESTLE STREET, RESEDA
20B	S	35-84	986	34	09	07	118	36	36	A.E. AUTENRIETH	GIRARD RESERVOIR, NEAR TOPANGA CANYON BOULEVARD AND VENTURA BOULEVARD
21	S	36-02	891	34	10	16	118	35	56	MRS. H. BAYLY	5545 CANOGA AVENUE, WOODLAND HILLS
23-E	SP AP	46-87	865	34	13	34	118	36	58	L.A.W.D. HYDROGRAPHER	EAST END CHATSWORTH RESERVOIR, WEST END SAN FERNANDO VALLEY
24D	S	46-94	957	34	15	23	118	36	19	L. BATWAY	10202 TOPANGA CANYON BOULEVARD, CHATSWORTH
25B	S	47-57	795	34	13	43	118	32	53	T.G. ANDREWS	19055 WEST PARTHENIA STREET, NORTHRIDGE
27B	S	48-55	902	34	14	57	118	26	40	GLEN C. RADDATZ	14333 VAN NUYS BOULEVARD, PACOIMA
28D	SP	48-32	950	34	16	22	118	27	50	SAN FERNANDO LEMON ASSOCIATION	15300 SAN FERNANDO MISSION BOULEVARD, SAN FERNANDO
29B	S	47-81	1150	34	16	58	118	30	46	L.A.W.D. OPERATOR	MAYERLING STREET AT L.A.W.D. GRANADA PUMP PLANT
30B	SP	59-28	1250	34	18	40	118	28	20	MIKE FUSANO	13143 SAN FERNANDO ROAD, SYLMAR
31	S	58-27	2850	34	19	28	118	34	14	W.J. WILLETT	ORCUTT RANCH, SANTA SUSANA MOUNTAINS AT HEAD OF RICE CANYON
32C	S	58-61	1243	34	23	07	118	31	54	L.A. CO. F. & F.W. PERSONNEL	24875 SAN FERNANDO ROAD, NEWHALL
33A'-E	SA	60-07	1500	34	19	48	118	23	59	E.K. BARR	BELOW PACOIMA DAM AT CARETAKER'S HOUSE
39B	8.81	50-19	1610	34	12	18	118	17	05	L.A.C.F.C.D. PERSONNEL	SUNSET DAM, BURBANK
42B	8.81	7-16	90	33	50	23	118	23	22	F.M. ARNOLD	219 SOUTH PACIFIC AVENUE, REDONDO BEACH
43B	S	2-20	450	33	47	47	118	22	12	DON BARKER	PALOS VERDES ESTATES, AT GOLF COURSE
43C	S	7-09	250	33	48	02	118	23	25	R.W. HIATT	PALOS VERDES ESTATES, AT FIRE STATION, PALOS VERDE DRIVE W. AND VIA CORTA
43D	S	2-00	216	33	47	58	118	23	29	R.W. HIATT	PALOS VERDES ESTATES, AT FIRE STATION, PALOS VERDES DRIVE WEST
44	S	1-85	125	33	44	30	118	24	38	A. SACCAMAGNO	POINT VICENTE LIGHTHOUSE, SOUTHWEST OF PALOS VERDES DRIVE WEST
46D-E	SA	51-10	2315	34	17	31	118	11	15	WILLIAM L. CROKE	BIG TUJUNGA DAM, WEST OF SPILLWAY
47D	SA	51-22	3200	34	16	40	118	10	15	BOB AMBROSE	CLEAR CREEK, 1.6 MILES ABOVE BIG TUJUNGA CANYON
48B	S	51-15	2000	34	14	40	118	10	50	U.S.F.S. PERSONNEL	OAK WILDE - ARROYO SECO
50B	S	40-10	1155	34	11	52	118	11	05	L.A. CO. F. & F.W. PERSONNEL	312 W. GEORGIAN ROAD, PASADENA
51	S	65-69	4010	34	18	06	117	50	20	B.J. BIERKE	FALLING SPRINGS RESORT, NORTH FORK, SAN GABRIEL
52B	S	51-44	3000	34	15	32	118	09	14	NORMA FITZGERALD	SWITZERS CAMP, ARROYO SECO, SAN GABRIEL MOUNTAINS
52C	SA	51-53	3290	34	15	58	118	08	37	U.S.F.S. PERSONNEL	WATERMAN GUARD STATION - ARROYO SECO, SAN GABRIEL MOUNTAINS
53D	SA	62-89	3675	34	18	02	118	06	39	ROBERT L. CHANDLER SR.	COLBY'S-COLDWATER CANYON ABOVE BIG TUJUNGA CANYON
54C	SP A	63-55	4300	34	20	55	118	02	55	RUTH ZIMMERMAN	JUNCTION NORTH AND MIDDLE FORKS, ALDER CREEK ABOVE BIG TUJNNGA CANYON
57B-E	SP A	52-04	4250	34	15	18	118	05	41	F. BENTON	WEST FORK SAN GABRIEL RIVER, OPID'S (CAMP HI HILL)
58	S	52-67	3225	34	13	51	118	02	19	LOUIS LUEBKERT	STURTEVANT CAMP, BIG SANTA ANITA CANYON
60A	SA	52-69	2650	34	12	32	118	02	02	LOUIS LUEBKERT	WINTER CREEK WEST OF SANTA ANITA CANYON, HOEGEE'S
63B-E	SA	41-81	1400	34	11	03	118	01	09	K.A. SHIPLEY	SANTA ANITA DAM AT CARETAKER'S HOUSE
66	S	41-54	658	34	09	27	118	02	36	RICHARD LAWYER	415 ORANGE GROVE AVENUE, SIERRA MADRE
67D	S	41-95	560	34	08	57	118	00	04	E. IRWIN	119 WEST PALM AVENUE, MONROVIA
68B	SA	42-12	1378	34	10	34	117	59	14	F.D. KELLY	SAWPIT DAM NEAR RIGHT ABUTMENT
69B	SA	42-21	1775	34	10	50	117	58	18	F.D. KELLY	SAWPIT CANYON, ONE MILE NORTHEAST OF SAWPIT DAM
70C	SA	42-93	845	34	09	47	117	53	37	TOM S. DINGMAN	MOUTH OF SAN GABRIEL CANYON, 0.15 MILE EAST OF ROBERT'S CANYON
70D	SA	42-93	770	34	09	46	117	54	15	JAMES R. RITTENHOUSE	MOUTH OF SAN GABRIEL CANYON, ABOVE ROGER'S (ROBERT'S) CANYON
73	S	43-54	1165	34	09	22	117	50	57	O.H. ENGLEHART	MOUTH OF ENGLEWILDE CANYON, GLENDORA
76B	S	54-57	1500	34	13	33	117	50	48	E.K. DE VORE	SAN GABRIEL CANYON ABOVE SAN GABRIEL DAM
80B	ST	67-06	5680	34	20	23	117	41	35	L.A.C.F.C.D. PERSONNEL	PRAIRIE FORK, 2.5 MILES UPSTREAM FROM VINCENT GULCH
81B	ST	66-42	6600	34	22	26	117	45	05	L.A.C.F.C.D. PERSONNEL	ANGELES CREST HIGHWAY, AT VINCENT GAP
82D	S	67-11	7500	34	22	53	117	41	05	SMITHSONIAN INSTITUTE PERSONNEL	TOP OF TABLE MOUNTAIN, NORTHEAST OF BIG PINES RECREATION PARK
83B	SA	67-12	6860	34	22	45	117	41	20	U.S.F.S. PERSONNEL	BIG PINES RECREATION PARK, ANGELES CREST HIGHWAY
85G	SA	56-46	4275	34	14	12	117	39	32	H. STONE	U.S.F.S. GUARD STATION, MT. BALDY
87	S AP	44-33	1485	34	10	03	117	46	02	U.S.F.S. PERSONNEL	9292 N. MAINFORK, SAN DIMAS CANYON ROAD
89B-E	SA	44-24	1350	34	09	10	117	46	17	AL BLEEMERS	SAN DIMAS CANYON BELOW DAM AT CARETAKER'S HOUSE
90	S	44-45	1680	34	09	00	117	45	32	CHARLES S. ELDER	6025 BRYDON ROAD, LA VERNE
91	S	44-87	1403	34	07	22	117	43	11	TOM ALLEN	2945 INDIAN HILL BOULEVARD, CLAREMONT
92	SA	32-90	1185	34	05	48	117	42	33	DR. PAUL ROUTLY	POMONA COLLEGE AT BRACKETT OBSERVATORY, CLAREMONT
93B	8.81	32-80	1180	34	05	45	117	42	57	C. MORGAN AND G. HAMBLIN	215 WEST SECOND STREET, CLAREMONT
95	S	43-99	955	34	06	26	117	48	19	L.A. CO. F. & F.W. PERSONNEL	114 EAST FIRST STREET, SAN DIMAS
96B-E	SA	31-90	1030	34	05	30	117	48	22	F.A. POLLARD	PUDDINGSTONE DAM AT CARETAKER'S HOUSE
98	SP	42-96	602	34	08	02	117	54	14	JOHN HIBSCH	325 EAST FOOTHILL BOULEVARD, AZUSA
99B	S	43-06	615	34	07	57	117	53	32	C.A. MEYER	18352 EAST FOOTHILL BOULEVARD, AZUSA
101B	S	30-43	356	34	03	52	117	57	04	C.J. HURST	SOUTHWEST CORNER MERCED AVENUE AND ORANGE AVENUE, WEST COVINA
102C	S	31-29	488	34	00	12	117	52	14	L.A. CO. F. & F.W. PERSONNEL	19711 EAST VALLEY BOULEVARD, WALNUT
104	S	30-09	575	34	00	26	117	59	42	JOHN THOMAS	14570 EAST ORANGE GROVE AVENUE, LA PUENTE
106C	S	16-62	340	33	58	27	118	01	57	K.R. WARREN	333 EAST PENN STREET, WHITTIER
107C	8.81	15-66	130	33	56	18	118	08	03	FIRE DEPARTMENT PERSONNEL	11435 SOUTH DOWNEY AVENUE, DOWNEY
108C	SA	29-52	275	34	04	30	118	02	30	JOSEPH J. O'NEIL	119 SOUTH HOYT AVENUE, EL MONTE
109D	S	41-27	547	34	07	42	118	04	22	L.A. CO. F. & F.W. PERSONNEL	7225 NORTH ROSEMEAD BOULEVARD, ARCADIA
110	S	28-70	500	34	05	40	118	07	43	L.E. MOELLER	7 NORTH SECOND STREET, ALHAMBRA
111	SP	40-48	690	34	06	58	118	09	05	D.D. SKINNER	1414 MISSION STREET, SOUTH PASADENA
116C	SA	13-43	155	33	57	54	118	21	15	R.L. JACKSON	11 REGENT STREET, INGLEWOOD
116D	SA	13-43	135	33	57	54	118	21	15	FIRE STATION PERSONNEL	11 REGENT STREET, INGLEWOOD
117F	S	8-70	78	33	53	42	118	13	34	FIRE STATION PERSONNEL	201 SOUTH ACACIA STREET, COMPTON
118C	S	3-40	40	33	47	27	118	15	30	E.J. PETESROSINO	401 EAST M STREET, WILMINGTON
119D	S	25-44	355	34	03	19	118	27	22	JOSEPHINE MC CARTHY	NATIONAL MILITARY HOME, WILSHIRE BLVD. AND SEPULVEDA BLVD., SAWTELLE
120	S	74-51	3135	34	29	17	118	08	29	L.A. CO. F. & F.W. PERSONNEL	1533 SIERRA HIGHWAY, VINCENT
122D	S	98-18	3125	34	37	04	118	17	17	RALPH RITTER	8858 ELIZABETH LAKE - PINE CANYON ROAD, SOUTH OF AMARGOSA CREEK
124B	AP	84-31	3050	34	35	14	118	21	45	L.A.W.D. CARETAKER	NORTHWEST OF SPUNKY CANYON ROAD AND BOUQUET CANYON ROAD
125	SP	83-40	2100	34	35	20	118	27	10	POWER HOUSE OPERATOR	POWER PLANT NO. 1, UPPER SAN FRANCISQUITO CANYON
126B	S	12-40	55	33	59	32	118	27	39	L.A.F.D. PERSONNEL	FIRE STATION - VENICE
127	SP	70-71	1511	34	28	55	118	31	40	JAMES B. RAY	DRY CANYON DAM, 2 MILES ABOVE SAN FRANCISQUITO CANYON ROAD
128B	SA	95-39	2075	34	36	28	118	33	40	E.E. STUDLEY	ELIZABETH LAKE CANYON AT WARM SPRINGS CAMP
130B	S	106-85	4025	34	44	37	118	42	43	JERRY E. FRYER	47376 OLD RIDGE ROUTE, SANDBERG
134	S	44-07	1110	34	07	39	117	47	42	A.L. STEVENS	NORTH OF FOOTHILL, WEST OF SAN DIMAS CANYON ROAD, SAN DIMAS
135	S	10-30	85	33	53	52	118	04	00	C.J. HARGITT	12450 MAPLEDALE STREET, NORWALK
136B	S	26-70	305	34	05	28	118	19	30	L.A. CITY PERSONNEL	6223 SANTA MONICA BOULEVARD, HOLLYWOOD
139B	SP AP	27-54	450	34	03	09	118	14	46	W.A. WILDE	316 WEST SECOND STREET, LOS ANGELES
140B	AP	25-45	232	34	02	42	118	27	08	L.A. CITY PERSONNEL	11550 SANTA MONICA BOULEVARD, WEST LOS ANGELES
143B	S	42-96	610	34	08	03	117	54	17	CORNELIUS SMITH	CITY HALL, AZUSA
144	S	41-52	1100	34	10	34	118	02	32	CHARLES ASKEW	BELOW SIERRA MADRE DAM
155B	S	87-79	3035	34	30	18	118	01	40	MERTIE BRESLIN	LITTLE ROCK CREEK, 1.5 MILES BELOW LITTLE ROCK DAM
156	SA	10-81	86	33	53	13	118	00	56	LYNN EDWARD	14758 ALONDRA BOULEVARD, LA MIRADA
157B	S AP	12-88	150	33	54	57	118	25	05	DON MORGAN	STANDARD OIL REFINERY, EL SEGUNDO
158	SP AP	55-49	2750	34	12	20	117	45	40	L.F. REIMAN	WEST FORK SAN DIMAS CANYON, TANBARK FLATS
167B	S	41-64	611	34	09	31	118	02	01	WAYNE SPENCER	67 WEST ORANGE GROVE AVENUE, ARCADIA
169-E	SP	41-63	700	34	09	47	118	02	21	CHARLES ASKEW	621 EAST SIERRA MADRE BOULEVARD, SIERRA MADRE
170C	S	29-15	285	34	02	35	118	04	50	K.P. TATUM	1140 NORTH WALNUT GROVE AVENUE, SAN GABRIEL
171B	S	41-35	625	34	08	45	118	04	03	W.E. COMERFORD	SOUTH OF COLORADO AT MICHILLINDA AVENUE, PASADENA

RAIN GAGE STATION LOCATION

SEASON 1959-60

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. OF GAGE	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
172B	S	42-35	548	34 08 26	117 58 02	W.B. BENGEL	1101 SOUTH OAK STREET, DUARTE
174	SP	43-86	960	34 07 57	117 49 09	L.A. WARREN	310 AMELIA AVENUE, GLENDORA
175B	S	50-87	2020	34 13 40	118 12 42	LA CANADA IRRIG. DIST. PERSONNEL	1443 FOOTHILL BOULEVARD, LA CANADA
176	SP	40-61	1125	34 10 55	118 08 15	MAXINE LONG	583 SACRAMENTO STREET, ALTADENA
177F	S	51-09	1270	34 12 12	118 11 40	J.P. AP ROBERTS	4603 ORANGE KNOLL, LA CANADA
179G	SA	41-32	1180	34 10 25	118 09 38	L.A.C.F.C.D. PERSONNEL	BAILEY CANYON ABOVE DEBRIS DAM, SIERRA MADRE
181B	S	29-94	293	34 03 09	118 00 04	R.S. CLIFFORD	13010 EAST VALLEY BOULEVARD, LA PUENTE
185	S	43-46	822	34 08 23	117 51 33	MRS. L.M. WEST	460 EAST BENNETT STREET, GLENDORA
188C	S	44-08	1070	34 07 08	117 47 38	WAYNE E. MORRISON	961 SAN DIMAS CANYON ROAD, SAN DIMAS
191B	SA	28-03	400	34 03 46	118 11 54	L.A.C.F.C.D. PERSONNEL	2250 ALCAZAR STREET, LOS ANGELES
192C	8.81	15-12	145	33 58 45	118 11 16	J.H. CARROLL	6320 PINE AVENUE, BELL
193B	S	31-21	580	34 04 57	117 52 29	W.B. TEMPLE	19248 PUENTE STREET, COVINA
196B	8.81	44-29	1050	34 06 03	117 46 12	J.G. HENDRICKS	2061 THIRD STREET, LA VERNE
198B	8.81	39-21	890	34 11 04	118 16 32	L.A.C.F.C.D. PERSONNEL	MOUTH OF BRAND CANYON AT BRAND DEBRIS BASIN, GLENDALE
199C	S	14-92	147	33 58 33	118 12 25	WILL LOUGH	6900 BISSELL STREET, HUNTINGTON PARK
200	S	70-27	1096	34 25 21	118 34 26	J.W. BECK	SOUTHERN CALIFORNIA EDISON COMPANY SUBSTATION 2.5 MILES WEST OF SAUGUS
201	SA	17-00	860	33 59 40	117 59 27	HARVEY LOWERY	3075 TURNBULL CANYON ROAD, LA PUENTE
206	S	30-94	467	34 03 19	117 54 23	P.R. JACKSON	1126 SOUTH AZUSA AVENUE, VALENCIA HEIGHTS, WEST COVINA
208B	S	10-13	52	33 51 48	118 04 58	L.A. CO. F. & F.W. PERSONNEL	18641 SOUTH CORBY AVENUE, ARTESIA
210B	S AP	39-21	1250	34 11 18	118 16 20	L.A.C.F.C.D. PERSONNEL	200 FEET ABOVE WATER TANK, BRAND PARK, GLENDALE
213D	SA	26-43	175	34 03 50	118 21 29	L.A.C.F.C.D. PERSONNEL	HANCOCK PARK, 5801 WILSHIRE BOULEVARD, LOS ANGELES
215D	S	9-71	70	33 52 55	118 07 25	RALPH MC CLURG	9834 EAST FLOWER STREET, BELLFLOWER
216	SP	39-43	615	34 09 54	118 15 01	J.E. JONES	318 EAST RANDOLPH STREET, GLENDALE
219	S	48-94	955	34 15 21	118 24 24	L.A. CO. F. & F.W. PERSONNEL	12605 OSBORNE AVENUE, PACOIMA
221F	S	59-99	1300	34 18 33	118 24 14	MRS. J.W. DUCKWORTH	12500 NORTH MACLAY STREET, PACOIMA
222C	SP	38-10	717	34 11 39	118 23 17	L.A. CITY W.D. PERSONNEL	11803 VAN OWEN STREET, NORTH HOLLYWOOD
223B-E	SA	43-83	1575	34 10 06	117 48 36	D.E. WILSON	BELOW BIG DALTON DAM AT CARETAKER'S HOUSE
224B	S	4-03	180	33 46 06	118 11 28	R.A. BIXBY	FIRST STREET AND PINE AVENUE, LONG BEACH
225	S	9-85	47	33 50 35	118 07 09	E. SMEATON	MONTANA RANCH, 5812 EAST ARBOR ROAD, LAKEWOOD
226B	S	38-91	680	34 10 58	118 18 23	CHIEF W.J. TAYLOR	353 EAST OLIVE STREET, BURBANK
227D	S	40-99	472	34 06 18	118 06 32	A.E. BRUINGTON	636 WEST HERMOSA DRIVE, SAN GABRIEL
228B	S AP	26-02	290	34 04 27	118 23 57	C. VALLE RIESTRA	CITY HALL ROOF, BEVERLY HILLS
230C	SP	44-68	1255	34 06 57	117 44 11	C.F. ELDER	4055 NORTH SAN ANTONIO AVENUE, EAST OF THOMPSON CREEK, LA VERNE
230D	SP	44-68	1250	34 06 42	117 43 54	C.F. ELDER	899 MARYHURST DRIVE, CLAREMONT
235L	SP A	41-10	2550	34 11 36	118 05 18	ROBERT NELSON	HENNIGER FLATS NEAR MT. WILSON TOLL ROAD
236E	S	59-88	1455	34 19 12	118 24 59	CARL COFF	MOLLIN GROVES, 13037 HUBBARD AVENUE, SAN FERNANDO
237C-E	SP	37-49	865	34 06 21	118 27 13	L.A.W.D. PERSONNEL	1680 STONE CANYON ROAD, STONE CANYON RESERVOIR
238	SP	38-68	750	34 07 04	118 19 55	L.A.W.D. PERSONNEL	HOLLYWOOD DAM
241B	S	4-03	68	33 46 10	118 11 37	C. BOWER	VETERAN'S MEMORIAL BUILDING, LONG BEACH
246B	S	26-18	75	34 01 00	118 23 17	CITY OF CULVER CITY PERSONNEL	CORNER JEFFERSON BOULEVARD AND DUQUESNE AVENUE, CULVER CITY
250D	SA	74-04	2550	34 27 02	118 11 52	JOHN V. HEDGECOCK	SOLEDAD AND ARRASTRE CANYON ROADS, ACTON
251	S	50-57	1565	34 13 28	118 14 24	LA CRESCENTA VALLEY WATER DIST.	2906½ FOOTHILL BOULEVARD, LA CRESCENTA
254B	S	30-69	380	34 00 12	117 56 19	JOHN FERRERO	16838 VALLEY BOULEVARD, LA PUENTE
255C	S	31-55	755	34 02 48	117 50 43	CLARK THOMAS	SAN JOSE HILLS NEAR SPADRA, MT. SAN ANTONIO COLLEGE
256B	S	32-44	876	34 03 17	117 45 02	SHARON NELSON	216 WEST FIFTH STREET, POMONA
257	S	39-17	850	34 07 18	118 17 04	JOHN M. JEFFERS	2650 NORTH COMMONWEALTH AVENUE, GRIFFITH PARK NURSERY, LOS ANGELES
258a	S	38-97	1100	34 07 24	118 18 11	I.J. KANASHIRO	WEST OF TUNNEL, POINT OF RIDGE, GRIFFITH PARK, LOS ANGELES
258b	S	38-97	1400	34 07 36	118 18 01	I.J. KANASHIRO	SOUTH SLOPE OF MOUNT HOLLYWOOD, GRIFFITH PARK, LOS ANGELES
258c	S	38-96	1600	34 07 48	118 18 07	I.J. KANASHIRO	NORTH SLOPE OF MOUNT HOLLYWOOD, GRIFFITH PARK, LOS ANGELES
259C	SA	46-92	1254	34 16 39	118 36 13	L.A. CO. F. & F.W. PERSONNEL	21880 MAYAN DRIVE, TWIN LAKES PARK, CHATSWORTH
261B-E	SA	73-20	2920	34 29 31	118 16 30	J.C. FASSOLD	ESCONDIDO CANYON, NORTH BRANCH, 5.5 MILES NORTHWEST OF ACTON
263F	S	32-37	820	34 01 34	117 46 06	RICHARD RIVERA	WEST OF PARK AVENUE, 2 MILES SOUTH OF FIFTH STREET, POMONA
265D	S	17-74	645	33 57 08	117 55 26	P.J. WEISEL, JR.	1500 FULLERTON AVENUE, PUENTE HILLS
266C	SP	17-04	301	33 57 12	117 59 56	EDWARD N. MELTON	15305 CARRETERA AVENUE, EAST WHITTIER
269B	SP AP	18-62	748	33 58 41	117 49 58	U.S. CORPS OF ENGR. PERSONNEL	DIAMOND BAR RANCH NO. 2, HORSE CAMP, BREA CANYON ROAD
270C	S	15-37	90	33 55 18	118 09 44	WILLIS S. MEYERS	7621 BONITA STREET, DOWNEY
272D	S	38-94	470	34 09 21	118 18 02	HARRY DERING	5230 FOREST LAWN DRIVE, LOS ANGELES
273D	S	2-12	1240	33 46 30	118 22 58	ROY MC CARRELL	SAN PEDRO HILLS, NORTH OF CREST ROAD AND HIGHRIDGE
274	SP	85-68	3250	34 30 50	118 14 10	E.L. CLINGAN	35022 NORTH CHANNON VALLEY ROAD, ACTON
274E	SP	85-67	3477	34 31 31	118 13 58	GUY S. LEE	5701 SHANNON VALLEY ROAD, ACTON
275	3"P	40-87	670	34 07 41	118 06 40	DAVID BRUCE	1151 OXFORD ROAD, SAN MARINO
277	S	108-17	3700	34 43 15	118 35 00	HAZEL SKELTON	25202 WEST PINE CANYON ROAD, 8.7 MILES NORTHWEST OF LAKE HUGHES POST OFFICE
278B	S	26-86	203	34 02 00	118 18 46	JACK LIND	CLARK MEMORIAL LIBRARY, 2205 WEST ADAMS, LOS ANGELES
280B	SA	40-01	1345	34 10 57	118 11 47	FIRE STATION PERSONNEL	1028 INVERNESS DRIVE, FLINTRIDGE FIRE STATION, FLINTRIDGE
283C	SA	65-58	5370	34 18 58	117 50 30	U.S.F.S. PERSONNEL	CRYSTAL LAKE, AT PINE FLAT NEAR U.S.F.S. STATION
284C	S	59-22	1490	34 22 40	118 28 35	SAM HURT	PLACERITA CANYON, EAST OF NEWHALL
284D	S	59-12	1475	34 22 35	118 28 50	SAM HURT	PLACERITA CANYON, EAST OF NEWHALL
285C	S	25-11	1025	34 05 10	118 28 57	MARTIN BULLINGER	12001 CHALON ROAD, SANTA MONICA MOUNTAINS, WEST LOS ANGELES
287	SP	43-36	782	34 08 22	117 51 54	O.J. HAMMER	224 NORTH MICHIGAN AVENUE, GLENDORA
289	SP	15-52	140	33 58 37	118 08 48	S.C.E. CO. PERSONNEL	6301 SOUTH GARFIELD AVENUE, BELL
290B	S	28-75	305	34 02 27	118 07 42	CHIEF H.C. MOORE	2001 SOUTH GARFIELD AVENUE, MONTEREY PARK
291	SA	14-45	121	33 56 56	118 15 17	W.G. HAWKINS	96TH STREET AND CENTRAL AVENUE, LOS ANGELES
292B-E	S	36-85	1000	34 08 57	118 30 55	H. MC CAULAY	ENCINO DAM, ONE MILE SOUTHWEST OF ENCINO
293-E	SP	48-11	1150	34 17 18	118 28 54	C.W. CARNEY	VAN NORMAN LAKE, LOWER DAM, SAN FERNANDO
294B	SP	41-53	985	34 10 11	118 02 51	CHARLES ASKEW	MIRA MONTE AVENUE AND MT. WILSON ROAD, SIERRA MADRE
295G	S	39-34	530	34 09 07	118 15 40	R. STAPENHORST	409 WEST LEXINGTON AVENUE, GLENDALE
298B	S	105-61	3650	34 47 18	118 49 54	DEWEY RALPH	ONE MILE EAST OF GORMAN
299D	S	88-26	2805	34 32 07	117 58 30	MRS. LENA SCHWAB	8650 AVENUE T8, LITTLE ROCK
303F	SA	40-76	800	34 08 14	118 07 25	N.H. BROOKS	1201 EAST CALIFORNIA STREET, PASADENA
304	S	42-30	2725	34 11 38	117 57 52	F.D. KELLY	DEER PARK, 1.5 MILES ABOVE SAWPIT DAM
306D	S	21-56	15	34 01 55	118 50 45	J. ASNER	TRANCAS BEACH, MALIBU
311b	SP AP	40-43	918	34 09 48	118 09 27	CRAIG AND OKUDO	1083 MENTONE STREET, PASADENA
312	S	42-85	675	34 08 51	117 54 55	F. BARNES	ONE MILE NORTHWEST OF AZUSA, 17015 SIERRA MADRE, AZUSA
318B	S	66-70	6150	34 23 53	117 43 40	V.B. TAYLOR	NORTHWEST OF JACKSON LAKE, NORTHWEST OF BIG PINES RECREATION PARK
321-E	S	96-62	3286	34 40 27	118 25 49	L.A. CO. F. & F.W. PERSONNEL	17021 PINE CANYON ROAD BETWEEN ELIZABETH AND HUGHES LAKES
322	S	110-48	2600	34 42 50	118 21 15	E.S. MUNZ	12701 WEST LANCASTER ROAD, LANCASTER
334B-E	SA	53-35	2330	34 14 37	117 57 37	E.S. WINDER	COGSWELL DAM, WEST FORK, SAN GABRIEL CANYON
336-E	SP	39-39	455	34 06 08	118 15 54	L.A.W.O. CARETAKER	SILVER LAKE RESERVOIR, LOS ANGELES
338A	S	52-47	5650	34 13 27	118 03 32	J.O. HICKOX	50 FEET SOUTHWEST OF 60-INCH TELESCOPE, MOUNT WILSON
338B	SP A	52-37	5709	34 13 36	118 03 57	VIRGINIA STRICKLAND	AIRWAY STATION, 0.5 MILE WEST OF 60-INCH TELESCOPE, MOUNT WILSON
339	SP	31-49	533	34 00 13	117 51 09	L.J. RICE	0.5 MILE SOUTHEAST OF WALNUT, 20651 EAST LYCOMING ROAD, WALNUT
341	S	74-43	2900	34 27 35	118 09 20	GEORGE J. BLUM	ALISO CANYON, EAST OF ACTON
342B	S	45-28	1508	34 07 08	117 40 45	J. HOLLAWAY	1526 NORTH BENSON STREET, UPLAND
347-E	S	30-30	386	34 05 36	117 57 40	L.A.C.F.C.D. PERSONNEL	SCOTT PLACE, ONE BLOCK WEST OF MAIN STREET, BALDWIN PARK
349C	S	54-46	1530	34 14 20	117 51 20	ROSS MC KAY	CAMP RINCON, WEST FORK, SAN GABRIEL CANYON
351D	SP	86-81	2648	34 34 51	118 06 47	J. NICHOLS	816 AVENUE Q7, PALMDALE
352B	SA	21-22	1620	34 04 38	118 52 47	L.A. CO. F. & F.W. PERSONNEL	LECHUSA PATROL STATION, 1832 SOUTH DECKER ROAD, MALIBU
355	S	27-01	335	34 05 19	118 17 34	C. THOMSON	855 NORTH VERMONT AVENUE, LOS ANGELES
356C	SA	31-95	690	34 02 31	117 48 35	R.S. HUTCHISON	STATE HOSPITAL, SOUTH OF POMONA BOULEVARD, SPADRA
357	SP AP	59-08	1248	34 18 49	118 29 30	L.A.W.D. PERSONNEL	POWER HOUSE NO. 3, VAN NORMAN LAKE, UPPER DAM
362B	SP	40-13	1120	34 09 48	118 10 53	C. KUN	1500 EAST EL MIRADOR DRIVE, PASADENA
363C	ST	59-44	3175	34 21 18	118 27 02	L.A.C.F.C.D. PERSONNEL	WILSON CANYON, SOUTH OF SANTA CLARA TRUCK TRAIL
364	S	50-23	2450	34 15 50	118 16 13	J.P. KINDRED	50 FEET EAST OF U.S.G.S. GAGING STATION, HAINES CANYON
365C	SP	50-63	5025	34 16 05	118 14 11	U.S.F.S. PERSONNEL	SOUTH SLOPE OF MT. LUKENS, SAN GABRIEL MOUNTAINS
367	SP A	50-42	3450	34 16 18	118 15 07	J.P. KINDRED	HEAD OF HAINES CANYON, ABOVE DIVERSION DAM

RAIN GAGE STATION LOCATION

SEASON 1959-60

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. OF GAGE	NORTH LAT. °	'	"	WEST LONG. °	'	"	OBSERVER	LOCATION
372	SP A	82-76	1580	34	32	02	118	31	27	CHIEF L.B. WIGGINS	SAN FRANCISQUITO CANYON, POWER HOUSE NO. 2, NORTHEAST OF SAUGUS
373B	SA	50-76	2225	34	14	20	118	13	28	R.T. SIENS	2202 SHIELDS AVENUE, LA CRESCENTA
375B	S	39-16	600	34	08	02	118	17	18	L.M. WENDT	GRIFFITH PARK ZOO, LOS ANGELES
377F	SP	33-04	1040	34	09	00	118	53	59	WILLIAM D. FURGUSON	LAKE SHERWOOD, AT FIRE STATION, VENTURA COUNTY
379B	SA	54-96	1600	34	14	10	117	48	18	E.K. DE VORE	SAN GABRIEL CANYON - EAST FORK, 2.7 MILES ABOVE FORKS
380	SA	28-11	525	34	04	49	118	10	51	GEORGE D. MORGAN	4566 BEDILLION STREET, EL SERENO
381C	S	25-08	80	34	00	48	118	29	32	A. GREENSTEIN	1450 THIRD STREET, SANTA MONICA
384B	S	40-26	850	34	07	58	118	10	27	FINLEY B. LAVERTY	502 LAKE VIEW ROAD, PASADENA
386C	S	21-71	1500	34	04	58	118	49	38	BARBARA OAKLEY	1.2 MILES SOUTHWEST OF BACKUS ROAD AND MULHOLLAND HIGHWAY
387B	SP	31-01	508	34	05	02	117	53	57	FLORENCE JESSUP	227 SOUTH HOLLENBECK AVENUE, COVINA
388C	8.81	9-30	70	33	53	30	118	09	36	L.A. CO. F. & F.W. PERSONNEL	15538 SOUTH COLORADO AVENUE, PARAMOUNT
389B	SP	43-35	835	34	08	50	117	52	01	FRANK H. BROWN	229 WEST SIERRA MADRE AVENUE, GLENDORA
390B-E	SP	43-21	1210	34	10	53	117	52	43	FRED CHAPMAN	MORRIS DAM, SAN GABRIEL CANYON
391B	8.81	28-98	215	34	00	40	118	06	15	CHIEF L.R. BEECH	140 NORTH SIXTH STREET, MONTEBELLO
394	S	40-28	620	34	07	06	118	10	39	MRS. ELIZABETH S. STEVENS	6425 ELGIN STREET, HIGHLAND PARK
395B	S	59-57	1425	34	19	31	118	26	56	JOSEPH N. JARBOE	OLIVE VIEW SANITARIUM, SAN FERNANDO
402C	SA	65-24	6665	34	21	18	117	52	32	D.W. CHESLEY	CEDAR SPRING STATE PRISON CAMP, 3 MILES WEST OF MT. ISLIP
405	S	73-06	2150	34	26	23	118	17	34	FRED ECKLES	11.7 MILES EAST OF SOLEMINT ON SOLEDAD CANYON ROAD
406C	S	42-88	505	34	06	53	117	54	56	OLIVER ENGLER	17018 EAST GLADSTONE STREET, WEST AZUSA
407-E	S AP	58-82	1325	34	22	13	118	30	48	U.S.F.S. PERSONNEL	U.S.F.S. DISTRICT HEADQUARTERS 23610 SAN FERNANDO ROAD, NEWHALL
409	S AP	93-12	2425	34	40	34	118	46	53	W. PRICE	18 MILES NORTH OF CASTAIC JUNCTION ON EAST SIDE OF RIDGE ROUTE
415	SA	4-30	140	33	47	49	118	10	03	GEORGE I. OSBORNE	ROOF OF CITY HALL, SIGNAL HILL
419B	ST	61-92	5450	34	22	26	118	12	20	L.A.C.F.C.D. PERSONNEL	PACOIMA CANYON ON SANTA CLARA RIDGE, 2.5 MILES WEST OF MT. GLEASON
420A'	S	74-07	2980	34	25	44	118	11	48	C.C. BREVIDORO	3.3 MILES SOUTH OF ACTON ON MT. GLEASON TRUCK TRAIL
422F	S	60-35	2175	34	20	48	118	21	52	J.D. BISHOP	TWO MILES ABOVE PACOIMA DAM ON LITTLE TUJUNGA ROAD
423A'	S	75-08	3920	34	24	56	118	05	28	E.W. SCRIBNER	1.0 MILE BELOW ANGELES FOREST HIGHWAY
425B-E	SA	54-39	1481	34	12	19	117	51	40	E.K. DE VORE	SAN GABRIEL DAM, NEAR SPILLWAY
427B	S	15-63	131	33	57	38	118	08	07	L.W. JORDAN	7518 LUBEC STREET, DOWNEY
432	S	52-89	2035	34	12	27	118	01	03	LOUIS LUEBKERT	SANTA ANITA CANYON, FERN LODGE
433C	SA	51-69	1580	34	12	15	118	08	23	L.A.C.F.C.D. PERSONNEL	FAIR OAKS DEBRIS BASIN, ALTADENA
434	SA	34-46	800	34	08	08	118	45	08	L.A. CO. F. & F.W. PERSONNEL	MALIBU DIVISION HEADQUARTERS, 0.8 MILE SOUTHWEST OF AGOURA
435	SA	23-02	600	34	04	41	118	41	35	L.A. CO. F. & F.W. PERSONNEL	MONTE NIDO PATROL STATION, COLD CANYON ABOVE MALIBU CREEK
436B	AP	49-03	975	34	15	43	118	23	50	U.S. C. OF E. PERSONNEL	12174 OSBORNE PLACE, SAN FERNANDO, AT HANSEN DAM
436C	AP	49-03	1110	34	16	08	118	23	59	U.S.C. OF E. PERSONNEL	10960 BORDEN AVENUE, SAN FERNANDO, NORTHEAST OF HANSEN DAM
437	S	4-30	40	33	47	31	118	10	13	L.A.C.F.C.D. PERSONNEL	HAMILTON BOWL, 1911 WALNUT AVENUE, LONG BEACH
440B	S	63-97	5250	34	19	37	118	00	17	U.S.F.S. PERSONNEL	NEAR ANGELES CREST HIGHWAY AT U.S.F.S. STATION, CHILAO
441C-E	S	86-82	2662	34	34	28	118	06	50	WAYNE STICE	COUNTY ROAD DEPARTMENT MAINTENANCE YARD, 38126 SIERRA HIGHWAY, PALMDALE
442	SP	78-53	3810	34	28	05	117	44	50	E.A. EBERLE	31721 NORTH 214TH STREET EAST, LLANO
443B	SA	21-80	1700	34	05	35	118	48	52	A.O. BEACH	SANTA MONICA MOUNTAINS, SOUTH SOUTHWEST OF MULHOLLAND HIGHWAY AND BACKUS ROAD
444C	SA	2-52	490	33	46	34	118	20	36	C. WOOD	PALOS VERDES HILLS AT PALOS VERDES DRIVE AND PORTUGUESE ROAD
445B	SAP	44-56	1510	34	08	02	117	44	38	L.A.C.F.C.D. PERSONNEL	LIVE OAK DAM, NORTH OF LA VERNE
446	SA	58-48	2367	34	18	53	118	33	25	T.J. WALL	5.5 MILES NORTH OF DEVONSHIRE STREET IN ALISO CANYON, SANTA SUSANA MTS.
447B	S	23-65	145	34	02	47	118	38	18	L.A. CO. F. & F.W. PERSONNEL	0.7 MILES FROM PACIFIC COAST IN LAS FLORES CANYON
449B	S	41-03	880	34	10	06	118	05	33	H.E. WILSON	EATON DAM, ALTADENA
451B	SA	69-83	1066	34	27	52	118	36	57	L.A. CO. F. & F.W. PERSONNEL	30055 HIGHWAY 99, CASTAIC
453B	S AP	40-21	1090	34	11	08	118	10	19	K.M. YORK	DEVILS GATE DAM AT CARETAKER'S HOUSE, PASADENA
455	S	99-61	2395	34	40	57	118	08	03	L.R. POTTER	STATE HIGHWAY MAINTENANCE YARD, 1.1 MILES SOUTH OF LANCASTER
456	S	102-54	2680	34	39	02	117	50	55	RICHARD A. AYRISS	PIUTE BUTTE, 15701 AVENUE M, EAST LANCASTER
458	S	22-08	115	34	01	10	118	47	46	L.A. CO. F. & F.W. PERSONNEL	28722 PACIFIC COAST HIGHWAY, MALIBU
460B	S	76-64	3996	34	27	35	117	55	58	NOEL NEAL	PLEASANT VIEW MESA, EAST OF AVENUE 106 AT 30900 HARMONY LANE
461	S	26-29	392	34	00	08	118	22	32	G.D. ASHDOWN	ONE MILE NORTH OF SLAUSON AVENUE, BALDWIN HILLS
462B	S	25-95	185	34	02	54	118	24	06	C. PRIDAY	HILLCREST COUNTRY CLUB, 10000 PICO BOULEVARD, LOS ANGELES
463B	S	25-78	92	34	00	49	118	25	32	JIM ALLISON	11637 CHARNOCK ROAD, SOUTHERN CALIFORNIA WATER COMPANY, MAR VISTA
465C	AP	37-33	683	34	10	06	118	28	11	U.S. C. OF E. PERSONNEL	SEPULVEDA DAM, VAN NUYS
466B	SA	60-54	3225	34	21	07	118	20	38	J. D. BISHOP	PACOIMA CANYON, DUTCH LOUIS CANYON, SAN GABRIEL MOUNTAINS
468	8.81	50-77	1600	34	13	15	118	13	45	L.A.C.F.C.D. PERSONNEL	PICKENS DEBRIS BASIN, NORTH OF FOOTHILL BLVD., EAST OF BRIGGS TERRACE AVENUE
470	SA	63-01	4600	34	23	19	118	05	26	L.A.C.F.C.D. PERSONNEL	NEAR TIE CANYON DIVIDE, MILL CREEK TUJUNGA, SAN GABRIEL MOUNTAINS
471	AP	60-98	2750	34	18	57	118	18	02	U.S. C. OF E. PERSONNEL	GOLD CREEK TRUCK TRAIL, 1.2 MILES ABOVE WATTS RANCH, LITTLE TUJUNGA
473B	S	72-63	2200	34	27	43	118	19	50	J.J. MURRAY	AQUA DULCE CANYON, EAST OF SAUGUS
474B	S	14-84	114	33	57	16	118	12	43	V.J. ALLMENDINGER	8917 STATE STREET, SOUTH GATE
475	S	70-58	1150	34	24	56	118	32	51	RALPH DOOP	NEWHALL LAND AND FARMING COMPANY OFFICE, SAUGUS
476D	S	34-06	825	34	07	50	118	47	52	A.M. MONTGOMERY	0.55 MILE ABOVE LOBO CANYON IN TRIUNFO CANYON, CORNELL
477C	SA	53-28	4675	34	13	02	117	58	40	E.C. WINDER	SPRING CAMP AT HEAD OF EAST FORK - SANTA ANITA CANYON
478	SP	77-45	3715	34	26	44	117	51	02	C.C. BEARDSLEY	U.S.F.S. HEADQUARTERS, PEARBLOSSOM HIGHWAY, VALYERMO
480B	S	41-49	404	34	06	31	118	03	25	L.A. CO. F. & F.W. PERSONNEL	5946 KAUFFMAN AVENUE, TEMPLE CITY
482	S	27-17	208	34	01	14	118	17	15	H.S. BUTLER	920 WEST 36TH PLACE, CIVIL ENGINEERING BUILDING, U.S.C., LOS ANGELES
486B	SA	55-83	3865	34	15	49	117	42	38	J.W. WIDMAN	COLDWATER CANYON, 3.5 MILES ABOVE JUNCTION WITH CATTLE CANYON
488B	S	49-20	1450	34	17	45	118	22	30	L.A. CO. F. & F.W. PERSONNEL	KAGEL CANYON ROAD AT DEXTER PARK, SAN FERNANDO
489	S	23-40	1318	34	05	37	118	39	22	MISS B.E. STUNT	COLD CREEK CANYON, 3.2 MILES ABOVE MONTE NIDO PATROL STATION
490	S	101-42	2472	34	40	46	117	57	06	A.W. LACHMAN	9861 EAST AVENUE K, LANCASTER
491B	S	24-75	320	34	02	38	118	31	36	MRS. C.D. CLEARWATER	855 VIA DE LA PAZ, PACIFIC PALISADES, SANTA MONICA
492	SA	63-98	5275	34	19	05	118	00	30	FRANK BUCK	STATE HIGHWAY MAINTENANCE STATION NEAR CHILAO, SAN GABRIEL MOUNTAINS
493B	SA	59-81	1780	34	23	13	118	25	03	DAVID BARRUS	2.7 MILES SOUTH OF SOLEDAD CANYON ROAD, WEST OF SAND CANYON ROAD
497	8.81	44-67	1350	34	07	35	117	43	55	F.E. SLAUGHTER	4652 GLEN WAY, CLAREMONT
498	S	51-04	2800	34	15	30	118	11	45	U.S.F.S. PERSONNEL	ANGELES CREST HIGHWAY AT DARK CANYON TRAIL
508C	S	51-39	1220	34	12	33	118	10	12	U.S.F.S. PERSONNEL	ARROYO SECO CANYON AT EL PRIETO CANYON, U.S.F.S. RANGER STATION
517B	SA	77-18	4700	34	25	00	117	53	10	PHIL LEWIS	PLEASANT VIEW RIDGE, PALLETT CREEK, SOUTH OF VALYERMO
519B	S	97-24	3325	34	39	35	118	22	38	MRS. E.F. STRANDBERG	14370 WEST ELIZABETH LAKE, PINE CANYON ROAD, PALMDALE
542-E	SP	109-79	3050	34	42	15	118	25	40	A.E. MAJORS	LOS ANGELES AQUEDUCT RESERVOIR, 45650 N. 170TH STREET WEST, FAIRMONT
551	SP	V. CO.	10	34	08	38	119	12	38	U.S. LIGHTHOUSE EMPLOYEE	PORT HUENEME LIGHTHOUSE, VENTURA COUNTY
564C	S	77-61	3450	34	28	55	117	50	03	L.W. BRYDEN	32810 AVENUE 165 EAST, LLANO
565B	AP	3-91	11	33	47	16	118	12	08	CITY OF LONG BEACH PERSONNEL	1607 SAN FRANCISCO STREET, LONG BEACH
566	SP AP	4-52	15	33	46	46	118	08	36	CITY OF LONG BEACH PERSONNEL	1020 BELMONT STREET, LONG BEACH
571C	SP	4-63	25	33	45	44	118	08	23	CITY OF LONG BEACH PERSONNEL	4423 EAST SECOND STREET, LONG BEACH
575C	SP	4-02	63	33	46	28	118	11	28	J.W. TEED	6TH AND PINE STREETS, LONG BEACH
577F	SP AP	27-54	548	34	03	19	118	14	26	U.S.W.B. PERSONNEL	FEDERAL BUILDING, 312 NORTH SPRING STREET, LOS ANGELES
587B	SP	45-22	2390	34	10	24	117	40	31	S.C.E. CO. PERSONNEL	S.C. EDISON COMPANY POWER HOUSE NO. 1, MOUTH OF SAN ANTONIO CANYON
588D	ST	51-97	4500	34	13	37	118	06	33	L.A.C.F.C.D. PERSONNEL	MT. LOWE TAVERN RUINS, SAN GABRIEL MOUNTAINS
593B	SP	68-69	675	34	24	08	118	44	10	MATHEW KUTYLO	NEWHALL RANCH, NEAR SANTA CLARA RIVER, VENTURA COUNTY
598	SP	107-91	3000	34	47	00	118	36	30	L.A.W.D. PERSONNEL	WEST END OF LANCASTER ON BAILY ROAD, NEENACH
610A	SP	40-73	985	34	10	03	118	07	17	MORRIS JONES	1250 NORTH HOLISTON STREET, PASADENA
610B	SP	40-55	864	34	08	54	118	08	36	CRAIG AND OKUBO	CITY HALL, PASADENA
611C	8.81	40-81	1186	34	10	48	118	07	01	L.A.C.F.C.D. PERSONNEL	ALTADENA GOLF COURSE DEBRIS BASIN, ALTADENA
612	SP	51-39	1181	34	12	27	118	10	00	CRAIG AND OKUBO	CHLORINE PLANT, MOUTH OF ARROYO SECO CANYON, PASADENA
613B	SP	40-46	780	34	07	48	118	09	12	FIRE STATION PERSONNEL	900 SOUTH PASADENA AVENUE, PASADENA
617B	SP	32-23	833	34	03	58	117	46	21	J.E. ADAMSON	931 NORTH WEBER STREET, POMONA
618B	3"P	V. CO.	1010	34	17	12	118	43	06	F.A. SNYDER	TAPO CITRUS ASSOCIATION, VENTURA COUNTY
619	SP AP	56-38	3200	34	12	50	117	40	10	S.C.E. CO. PERSONNEL	SIERRA POWER HOUSE, SAN ANTONIO CANYON, 2 MILES BELOW CAMP BALDY
627	SP	42-94	750	34	09	20	117	54	28	D.C. RUDDELL	MOUTH OF SAN GABRIEL CANYON AT POWER HOUSE
629C	SP	3-27	85	33	43	15	118	16	17	MARINE EXCHANGE PERSONNEL	WAREHOUSE NO. 1, LOS ANGELES OUTER HARBOR, SAN PEDRO
634C	SP	25-08	138	34	00	43	118	29	27	T.M. DONAHUE	CITY HALL, SANTA MONICA
644	3"P	V. CO.	300	34	15	40	118	59	48	F.A. SNYDER, JR.	SNYDER RANCH - SOMIS
660B	SP	V. CO.	45	34	11		119	10		CITY OF OXNARD PERSONNEL	OXNARD, VENTURA COUNTY
662B	AP	9-26	80	33	50	00	118	10	12	GEORGE NELSON	4206 KEEVER AVENUE, LONG BEACH
666C	SP AP	9-02	55	33	52	20	118	11	55	LLOYD E. BALL	271 EAST NEECE STREET, LONG BEACH

RAIN GAGE STATION LOCATION

SEASON 1959-60

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. OF GAGE	NORTH LAT. °	'	"	WEST LONG. °	'	"	OBSERVER	LOCATION
672	SP	40-14	950	34	09	02	118	10	57	RALPH LATHAM	7888 NORTH FIGUEROA STREET, EAGLE ROCK
673C	S	4-85	15	33	44	42	118	06	40	L.A.W.D. PERSONNEL	SAN GABRIEL RIVER AT OCEAN BOULEVARD, SEAL BEACH, ORANGE COUNTY
676	4½"P	13-93	173	33	57	58	118	18	24	H.F. PARKINSON	1727 WEST 80TH STREET, LOS ANGELES
678	SP	40-32	1052	34	10	39	118	09	56	CRAIG AND OKUBO	SHELDON RESERVOIR, NEAR MONTANA STREET AND ARROYO BOULEVARD, PASADENA
679	SP	30-27	314	34	01	14	117	58	40	DILLON WOOD	749 NINTH AVENUE, CITY OF INDUSTRY
680B	SP	25-53	430	34	04	10	118	26	30	F.A. ARSENAULT	U.C.L.A. CAMPUS, ROOF OF MATH. SCIENCE BUILDING, WESTWOOD
681A*	S	41-62	935	34	10	15	118	01	54	U.S.F.S. PERSONNEL	2219 NORTH SANTA ANITA AVENUE, SIERRA MADRE
683	SP AP	51-58	2110	34	12	53	118	08	48	U.S.F.S. PERSONNEL	SUNSET GUARD STATION BETWEEN MILLARD AND WEST RAVINE CANYONS
691B	8.81	45-14	2090	34	09	20	117	40	55	G.A. RITTER	SAN ANTONIO SPREADING GROUNDS, MOUTH OF SAN ANTONIO CANYON
695B	S	50-71	1850	34	17	12	118	13	32	J.O. LANNON	2131 WEST BIG TUJUNGA ROAD, TUJUNGA
703	SP	39-54	603	34	09	00	118	14	27	P.T. MC INTYRE	315 NORTH ADAMS STREET, GLENDALE
705	SP	60-87	2330	34	19	48	118	19	03	J.M. SHIFFER	CECIL B. DE MILLE RANCH, ALDER CREEK, LITTLE TUJUNGA CANYON
716	SP AP	27-64	300	34	03	09	118	14	13	F.W. PETERS	410 OUCOMMUN STREET, LOS ANGELES
718B	SP	33-52	810	34	10	43	118	50	59	FIRE STATION PERSONNEL	67 ERBS ROAD, VENTURA COUNTY
720	SP	46-43	1075	34	15	44	118	39	32	W.T. FORSON	6662 SMITH ROAD, VENTURA COUNTY
722C	S	98-67	2900	34	37	23	118	13	57	A.E. STRATMAN	40780 60TH STREET WEST, LANCASTER
724	SP AP	43-92	1775	34	10	34	117	48	26	U.S.F.S. PERSONNEL	NEAR MOUTH OF MONROE CANYON, ABOVE BIG DALTON DAM
725	AP	36-91	724	34	11	22	118	30	25	U.S. C. OF E. PERSONNEL	BIRMINGHAM HOSPITAL, NEAR VAN OWEN STREET AND BALBOA BLVD. VAN NUYS
726	S AP	51-16	2300	34	14	00	118	10	30	U.S.F.S. PERSONNEL	ANGELES CREST GUARD STATION AT FALLS CANYON, ARROYO SECO
726B	S AP	51-16	2300	34	14	05	118	11	00	U.S.F.S. PERSONNEL	ANGELES CREST GUARD STATION AT FALLS CANYON, ARROYO SECO
727	SP	52-76	4160	34	13	50	118	01	35	B.E. ROBB JR.	NEWCOMB PASS, 2 MILES NORTHEAST OF MT. WILSON
728	SP	60-93	3000	34	21	40	118	18	28	U.S.F.S. PERSONNEL	PACOIMA CANYON BETWEEN NOEL AND GOOSEBERRY CANYON
730	SP	51-67	2800	34	13	30	118	07	50	U.S.F.S. PERSONNEL	NEAR DAWN MINE, MILLARD CANYON, ARROYO SECO
731	SP	40-20	1080	34	11	47	118	10	29	U.S.F.S. PERSONNEL	OAK GROVE PARK, ABOVE DEVILS GATE DAM, PASADENA
732B	ST	53-77	4160	34	13	30	117	55	15	L.A.C.F.C.D. PERSONNEL	BETWEEN ROBERTS CANYON AND SAN GABRIEL - WEST FORK, NEAR PINE MOUNTAIN
734B	SP AP	13-15	126	33	56	32	118	23	12	U.S.W.B. PERSONNEL	5900 AVION DRIVE, LOS ANGELES
735B	S	35-40	925	34	11	37	118	39	27	LESTER RUSHWORTH	6761 NORTH VALLEY CIRCLE DRIVE, CANOGA PARK
737	SP	V. CO.	4000	34	35	42	119	19	12	FRANK FELT	WHEELER SPRINGS, VENTURA COUNTY
739	SP	V. CO.	335	34	19	54	119	07	48	PACKING HOUSE SUPERINTENDENT	SANTA PAULA, LIMONEIRA RANCH, VENTURA COUNTY
740B	AP	45-00	5200	34	11	48	117	41	45	L.F. REIMAN	SAN DIMAS CANYON, FERN CANYON
741	AP	44-50	2765	34	11	41	117	44	26	L.F. REIMAN	SAN DIMAS CANYON, UPPER EAST FORK
742C	SP	41-09	445	34	06	11	118	05	56	FIRE DEPARTMENT PERSONNEL	DEL MAR NEAR MISSION STREET, SAN GABRIEL
746	SP	X. CO.	2620	35	03		118	10		GEORGE L. TURCOTT	7 MILES SOUTH OF MOJAVE, BACKUS RANCH, KERN COUNTY
747	SP AP	106-75	4517	34	44	47	118	43	29	U.S.W.B. PERSONNEL	SANDBERG AIRWAYS - TOP OF BALL MOUNTAIN
749	SP AP	38-50	699	34	11	47	118	21	11	U.S.W.B. PERSONNEL	ROOF OF ADMINISTRATION BUILDING, LOCKHEED AIRPORT, BURBANK
750	SP	100-18	2536	34	36	59	118	05	02	F.A.A. PERSONNEL	F.A.A. AIRWAY COMMUNICATION STATION, PALMDALE
751B	SP	7-76	85	33	49	52	118	19	41	FIRE DEPARTMENT PERSONNEL	1701 CRENSHAW BOULEVARD, TORRANCE
755	AP	39-17	900	34	07	32	118	16	58	CITY OF L.A. PERSONNEL	GRIFFITH PARK, LITTLE CANYON
756	AP	39-05	1200	34	07	48	118	17	34	CITY OF L.A. PERSONNEL	GRIFFITH PARK, UPPER SPRING CANYON
757	AP	38-98	750	34	07	12	118	18	20	CITY OF L.A. PERSONNEL	GRIFFITH PARK, FERN DELL
758	AP	39-16	600	34	08	02	118	17	27	CITY OF L.A. PERSONNEL	GRIFFITH PARK, LOWER SPRING CANYON
759B	AP	38-49	478	34	06	22	118	24	00	CITY OF L.A. & LACFCD PERSONNEL	1944 NICHOLS CANYON ROAD, HOLLYWOOD
760	AP	37-95	680	34	08	29	118	24	26	CITY OF L.A. PERSONNEL	3913 GOODLAND AVENUE, STUDIO CITY
762	AP	37-47	943	34	07	27	118	27	15	CITY OF L.A. PERSONNEL	UPPER STONE CANYON
763B	SP	37-29	1300	34	06	25	118	28	26	CITY OF L.A. PERSONNEL	SEPULVEDA CANYON - EAST FIRE ROAD NO. 19
764	SP	37-59	975	34	06	22	118	26	50	CITY OF L.A. PERSONNEL	STONE CANYON - 2302 RIAL LANE
765B	SP	37-26	1325	34	07	52	118	28	42	CITY OF L.A. PERSONNEL	15801 MULHOLLAND DRIVE
766	AP	36-97	1625	34	07	38	118	30	03	CITY OF L.A. PERSONNEL	MANDEVILLE CANYON - FIRE ROAD NO. 24
767	SP	36-98	1225	34	07	12	118	30	12	CITY OF L.A. PERSONNEL	3351 MANDEVILLE CANYON ROAD
768	SP	36-87	1465	34	07	19	118	30	52	CITY OF L.A. PERSONNEL	SULLIVAN CANYON - FIRE ROAD NO. 26
769	AP	36-49	1980	34	06	32	118	33	31	CITY OF L.A. PERSONNEL	SANTA YNEZ CANYON, TEMESCAL FIRE ROAD NO. 30
770	AP	24-44	700	34	03	34	118	33	25	CITY OF L.A. PERSONNEL	SANTA YNEZ CANYON, PASEO MIRAMAR
771	AP	24-94	265	34	03	06	118	30	32	CITY OF L.A. PERSONNEL	RUSTIC CANYON, SANTA MONICA MOUNTAINS
772	AP	27-41	475	34	05	02	118	15	11	CITY OF L.A. PERSONNEL	ECHO PARK AND LUCRETIA, LOS ANGELES
774	AP	27-52	450	34	04	31	118	14	46	CITY OF L.A. PERSONNEL	BARLOW SANITARIUM, LOS ANGELES
776	SP	38-37	1025	34	07	18	118	21	46	CITY OF L.A. PERSONNEL	7666 WOODROW WILSON DRIVE, NICHOLS CANYON, SANTA MONICA
777	SP	25-13	418	34	03	45	118	28	51	CITY OF L.A. PERSONNEL	259 NORTH KENTER AVENUE, KENTER CANYON, SANTA MONICA MOUNTAINS
778B	SP	25-21	570	34	04	50	118	28	12	CITY OF L.A. PERSONNEL	11817 BELLAGIO ROAD, SEPULVEDA CANYON, SANTA MONICA MOUNTAINS
779	AP	39-05	625	34	08	48	118	17	48	CITY OF L.A. PERSONNEL	GRIFFITH PARK, LOWER MINERAL WELLS
780	AP	38-95	950	34	08	34	118	18	08	CITY OF L.A. PERSONNEL	GRIFFITH PARK, UPPER MINERAL WELLS
783	SP AP	51-28	1268	34	12	45	118	10	14	U.S.F.S. PERSONNEL	MOUTH OF COON CANYON IN ARROYO SECO
784	SP	51-38	1515	34	12	56	118	10	10	U.S.F.S. PERSONNEL	0.3 MILE ABOVE MOUTH OF COON CANYON IN ARROYO SECO
785	SP	51-38	1707	34	13	03	118	10	05	U.S.F.S. PERSONNEL	0.5 MILE ABOVE MOUTH OF COON CANYON IN ARROYO SECO
786	SP	51-37	2207	34	13	18	118	09	50	U.S.F.S. PERSONNEL	0.75 MILE ABOVE MOUTH OF COON CANYON IN ARROYO SECO
787	SP	51-38	2022	34	13	09	118	09	51	U.S.F.S. PERSONNEL	0.9 MILE ABOVE MOUTH OF COON CANYON ON EAST SLOPE, ARROYO SECO
788	SP	51-38	1825	34	13	00	118	09	58	U.S.F.S. PERSONNEL	0.4 MILE ABOVE MOUTH OF COON CANYON IN ARROYO SECO
789	SP	51-47	2035	34	13	17	118	09	19	U.S.F.S. PERSONNEL	2.6 MILES NORTHWEST OF CHENY TRAIL AND LOMA ALTA DRIVE, ALTADENA
790	SP	V. CO.	470	34	23	54	118	55	06	CITRUS ASSOC. PERSONNEL	FILMORE CITRUS ASSOCIATION, VENTURA COUNTY
791	SP	V. CO.	150	34	16	09	119	08	08	LEMON ASSOC. PERSONNEL	LEMON ASSOC. SATICOY, VENTURA COUNTY
792	SP	V. CO.	290	34	21	12	119	03	48	CO. AGRICULTURAL PERSONNEL	COUNTY AGRICULTURAL OFFICE, SANTA PAULA, VENTURA COUNTY
793	SP	51-96	5300	34	14	20	118	06	00	U.S.F.S. PERSONNEL	MARKHAM SADDLE, 0.6 MILE WEST OF MT. WILSON
794-E	SP	25-80	585	34	05	43	118	24	40	L.A.W.D. PERSONNEL	LOWER FRANKLIN RESERVOIR, SANTA MONICA MOUNTAINS
795	SP	41-15	705	34	08	52	118	05	14	P.W.D. PERSONNEL	NEAR COLORADO STREET AND KINNELOA AVENUE, PASADENA
796	AP	27-61	757	34	04	55	118	14	22	CITY OF L.A. PERSONNEL	REPOSA STREET AND AVALON PARK ROW, ELYSIAN PARK
797	SP	47-12	1127	34	16	17	118	35	12	L.A.W.D. PERSONNEL	NORTH END OF DE SOTO STREET, NORTHEAST OF CHATSWORTH
799	SP	26-39	460	34	00	25	118	21	47	L.A.W.D. PERSONNEL	1/4 MILE WEST OF LA BREA AVENUE AND ONE MILE SOUTH OF RODEO ROAD
801	AP	61-10	4450	34	23	45	118	17	12	U.S. C. OF E. PERSONNEL	NORTH OF SANTA CLARA DIVIDE ON MAGIC MOUNTAIN, SAN GABRIEL MOUNTAINS
802B-E	SP	40-15	963	34	08	47	118	11	22	L.A.W.D. PERSONNEL	HILLMONT AND CEDAREDGE AVENUE, EAGLE ROCK
807	SP	28-12	620	34	04	46	118	11	14	L.A.W.D. PERSONNEL	ASCOT RESERVOIR, LYNNFIELD STREET AND BOWMAN BLVD. LOS ANGELES
1000	S	87-38	3263	34	30	48	118	03	37	L.A. BONES	HUNT CANYON, 1.0 MILE SOUTH OF FORT TEJON ROAD, SOUTHWEST OF LITTLE ROCK
1002	S	50-03	1605	34	16	03	118	17	50	F.P. EADE	7618 LE BERTHON STREET, TUJUNGA
1005	S	84-48	2350	34	30	47	118	21	31	R.E. TAGGART	MINT CANYON AND SPADE SPRING CANYON NEAR THE OAKS, N.E. OF SAUGUS
1006	SA	3-05	150	33	44	37	118	17	47	K.C. STEELE	FIRST AND MEYLER STREETS, SAN PEDRO
1007B	S	64-25	5900	34	20	40	117	58	41	R.O. STAVIG	CAMP VALCREST, ANGELES CREST HIGHWAY, NORTHEAST OF CHILAO
1008-E	SA	7-63	65	33	52	07	118	19	55	S.C.E. PERSONNEL	17680 YUKON AVENUE, S.C.E. CO. SUBSTATION, GARDENA
1009	S	71-66	1625	34	26	04	118	26	06	JAMES W. DYER	MINT CANYON, 17262 SIERRA HIGHWAY, EAST OF SAUGUS
1010B	SA	44-93	2120	34	09	36	117	42	07	L.A.C.F.C.D. PERSONNEL	PALMER CANYON, 1.5 MILES NORTH NORTHEAST OF THOMPSON CREEK DAM
1011B	S	2-44	1275	33	45	25	118	21	11	L.A. CO. F. & F.W. PERSONNEL	12 WEST CREST ROAD, PALOS VERDES HILLS
1012	S	69-96	1001	34	26	23	118	36	20	M. KUTYLO	CASTAIC JUNCTION, HIGHWAY 99 AND VENTURA HIGHWAY
1013B	SA	61-39	1650	34	18	00	118	16	06	L.A.C.F.C.D. PERSONNEL	TUJUNGA CANYON ABOVE GOLO CANYON, SAN GABRIEL MOUNTAINS
1014D-E	SA	15-90	155	33	59	25	118	06	33	W. ROPER	8020 WASHINGTON BOULEVARD, EAST OF RIO HONDO
1016	S	34-63	1000	34	09	40	118	44	08	S.W. SWANSON	6300 CHEESBORO CANYON ROAD, AGOURA
1017	SA	75-83	3330	34	27	51	118	01	09	L.A.C.F.C.D. PERSONNEL	LITTLE ROCK CREEK ABOVE SANTIAGO CREEK
1018B	S	57-86	3340	34	20	18	118	36	44	C. DWYER	SANTA SUSANA MTS. AT HEAD OF DEVIL CANYON
1019	ST	57-34	2850	34	21	24	118	39	42	L.A.C.F.C.D. PERSONNEL	SANTA SUSANA MTS. AT HEAD OF SALT CANYON
1020	S	45-05	1810	34	08	54	117	41	52	L.A. CO. F. & F.W. PERSONNEL	PADUA HILLS PATROL STATION, 4349 PADUA AVENUE, CLAREMONT
1021	ST	61-14	4500	34	21	03	118	16	53	L.A.C.F.C.D. PERSONNEL	YERBA BUENA TRAIL BETWEEN S. FORK, PACOIMA CANYON AND SLAUGHTER CANYON
1021B	ST	61-14	4515	34	21	03	118	16	52	L.A.C.F.C.D. PERSONNEL	YERBA BUENA TRAIL BETWEEN S. FORK, PACOIMA CANYON AND SLAUGHTER CANYON
1022	S	69-12	1725	34	28	44	118	41	04	GULF OIL CO. EMPLOYEES	HASLEY CANYON, 5 MILES ABOVE JUNCTION WITH CASTAIC CREEK
1023B	S	36-27	1415	34	07	44	118	34	42	W. SPEER	GARRAPATA CANYON 0.75 MILE S. MULHOLLAND HIGHWAY ON SANTA MARIA ROAD
1025	S	22-86	160	34	02	00	118	42	42	PHILLIP DUNNE	24708 PACIFIC COAST HIGHWAY, MALIBU BEACH
1028C	S	22-53	1300	34	03	43	118	44	32	D.W. CRUMP	26385 INGLESIDE WAY, MALIBU
1029	S	63-10	4950	34	23	27	118	04	50	G. TURNER	TIE CANYON DIVIDE, SOUTH OF ANGELES FOREST HIGHWAY
1030	ST	65-65	7590	34	20	50	117	49	57	L.A.C.F.C.D. PERSONNEL	BETWEEN MOUNT ISLIP AND LITTLE JIMMY SPRINGS, SAN GABRIEL MOUNTAINS
1031B	ST	64-66	7925	34	20	23	117	56	21	L.A.C.F.C.D. PERSONNEL	0.25 MILE EAST OF WATERMAN MOUNTAIN, SAN GABRIEL MOUNTAINS
1035	SA	16-40	280	33	59	52	118	03	10	WALTER J. WOOD	1411 BEVERLY DRIVE, WHITTIER

RAIN GAGE STATION LOCATION

SEASON 1959-60

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. OF GAGE	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
1037-E	SA	41-45	565	34 08 48	118 02 59	J.T. MC GAH	301 NORTH BALDWIN AVENUE, ARCADIA
1038	ST	63-62	6925	34 22 44	118 01 53	L.A.C.F.C.D. PERSONNEL	SOUTHEAST OF PACIFICO MOUNTAIN, SAN GABRIEL MOUNTAINS
1039B	S	26-72	225	34 04 13	118 19 23	DR. DON MAC QUEEN	245 SO. LARCHMONT BOULEVARD, LOS ANGELES
1040	S	57-60	1150	34 23 50	118 38 18	SUNRAY OIL CO. PERSONNEL	4 MILES SOUTHWEST OF SANTA CLARA RIVER AND HIGHWAY 99
1041B	AP	42-28	427	34 07 04	117 58 24	U.S. C. OF E. PERSONNEL	SANTA FE DAM EAST OF SPILLWAY SOUTH OF MONROVIA
1042	SP	2-73	825	33 45 37	118 19 47	C. WOOD	EASTFIELD DRIVE AT, ROLLING HILLS
1043	SP	2-66	950	33 44 12	118 19 57	C. WOOD	CREST ROAD AND PALOS VERDES DRIVE EAST, ROLLING HILLS
1044	SP	2-46	150	33 44 20	118 21 30	C. WOOD	NO. 2 YACHT HARBOR DRIVE - PALOS VERDES DRIVE SOUTH, ROLLING HILLS
1045B	SP	1-95	225	33 44 52	118 24 27	C. WOOD	CREST ROAD - PALOS VERDES DRIVE WEST, ROLLING HILLS
1046B	S	41-70	2175	34 11 46	118 01 20	LILA ADAMS	NORTH END OF CHANTRY FLAT - SANTA ANITA CANYON
1048B	S	50-47	1410	34 13 27	118 15 23	O.O. LANGERUD	3916 DUNSMORE STREET, LA CRESCENTA
1050	S	35-79	1010	34 06 29	118 37 41	FERMIN GRAY	1535 N. VALLEY DRIVE, TOPANGA
1051	SP	36-21	800	34 10 53	118 34 23	LEE HAINES	6201 WINNETKA AVENUE, C.W. PIERCE COLLEGE, CANOGA PARK
1052	SP	24-81	660	34 04 51	118 31 10	PAUL WEISS	3000 RUSTIC CANYON, B.S.A. CAMP JOSEPHO, SANTA MONICA MOUNTAINS
1053	S	50-02	1500	34 16 42	118 17 43	K.A. SOLOMON	TUJUNGA CANYON, 1.7 MILES ABOVE FOOTHILL BOULEVARD
1054	S	59-87	1730	34 19 35	118 24 45	FRED IVERSEN	1.6 MILES NORTHEAST OF FOOTHILL BOULEVARD AND SAYRE STREET
1055	S	56-82	7800	34 16 32	117 36 34	H. LEFFLER	2.1 MILES SOUTHEAST OF SAN ANTONIO PEAK AT THE NOTCH, SAN BERNARDINO CO.
1056	S	113-72	2315	34 46 20	118 01 40	C.H. KIRKLAND	5701 EAST AVENUE E, LANCASTER
1057B	S	29-56	230	34 02 02	118 02 40	DORIS K. BULLION	1000 NORTH DURFEE ROAD, WHITTIER NARROWS, EL MONTE
1058	AP	87-00	2583	34 35 45	118 05 35	IRRIGATION DISTRICT PERSONNEL	1.7 MILES NORTHEAST OF PALMDALE
1059B	ST	65-98	7700	34 18 46	117 48 32	L.A.C.F.C.D. PERSONNEL	SOUTH HAWKINS PEAK EAST OF CRYSTAL LAKE
1060	SA	76-28	3925	34 25 02	117 58 17	L.A.C.F.C.D. PERSONNEL	LITTLE ROCK CANYON AT SYCAMORE CAMP
1062	SA	64-85	6660	34 20 45	117 55 12	U.S.F.S. PERSONNEL	BUCKHORN FLAT, 1.25 MILES NORTHEAST OF WATERMAN MOUNTAIN
1063	S	75-00	3610	34 29 38	118 05 24	J.G. JOHNSTON	SOLEDAD PASS 1.6 MILES EAST OF ANGELES FOREST HIGHWAY
1064	ST	55-35	2000	34 14 36	117 45 40	L.A.C.F.C.D. PERSONNEL	SAN GABRIEL CANYON - EAST FORK, 1.2 MILES ABOVE CATTLE CANYON
1066B	AP	4-92	10	33 46 40	118 06 05	J.E. MC GINNIS	845 LEES STREET, LONG BEACH
1067	S	75-35	4500	34 26 36	118 04 00	L.A.C.F.C.D. PERSONNEL	HEAD OF SANTIAGO CANYON, 2 MILES EAST OF ANGELES FOREST HIGHWAY
1068	S	21-31	1290	34 05 00	118 51 55	SHERIFF PERSONNEL	RATTLESNAKE CANYON, SANTA MONICA MOUNTAINS
1069	ST	55-51	2825	34 16 58	117 44 48	L.A.C.F.C.D. PERSONNEL	SAN GABRIEL RIVER - EAST FORK ABOVE DEVILS GULCH
1070	S	7-11	182	33 53 00	118 23 19	V. PADDOCK	6TH STREET AND ROWELL AVENUE, MANHATTAN BEACH
1071B-E	S	50-89	1300	34 12 10	118 12 40	J. THRELKELD	1418 DESCANSO DRIVE, DESCANSO GARDENS, LA CANADA
1072	SP	49-30	1275	34 17 37	118 21 38	M. BORROWS	LITTLE TUJUNGA CANYON, 2 MILES ABOVE FOOTHILL BOULEVARD
1073B	SP	87-36	2855	34 32 14	118 03 48	NORMAN E. ROSS	3624 EAST AVENUE T6, PALMDALE
1074	SA	62-42	5600	34 22 46	118 09 03	U.S. ARMY PERSONNEL	WEST OF LITTLE GLEASON ON SANTA CLARA RIDGE, SAN GABRIEL MOUNTAINS
1075	AP	44-72	3625	34 10 13	117 43 16	L.F. REIMAN	SAN DIMAS EXPERIMENTAL FOREST AT HEAD OF WOLFSKILL CANYON
1076	SP	62-68	2850	34 18 38	118 08 17	ROBERT SCOLES	ANGELES FOREST HIGHWAY ABOVE MILL CREEK BRIDGE
1077B	S	42-03	962	34 09 58	117 59 37	MONROVIA W.D. PERSONNEL	CANYON BOULEVARD AND OAKGLADE STREET, MONROVIA
1078	SA	31-53	975	34 04 10	117 50 47	E.B. GRIFFITH	20951 EAST VIA VERDE, WEST COVINA
1079	8.81	40-70	1653	34 11 57	118 07 22	L.A.C.F.C.D. PERSONNEL	RUBIO DEBRIS BASIN, ALTADENA
1080B	SA	42-34	935	34 09 23	117 57 58	L.A.C.F.C.D. PERSONNEL	BRADBURY DEBRIS BASIN, DUARTE
1081	S	39-50	1200	34 11 33	118 14 28	L.A.C.F.C.D. PERSONNEL	DEER DEBRIS BASIN, VERDUGO MOUNTAINS
1082	8.81	50-45	2275	34 14 53	118 15 07	L.A.C.F.C.D. PERSONNEL	DUNSMUIR DEBRIS BASIN, EAST OF TUJUNGA
1083	S	42-44	905	34 09 17	117 57 05	L.A.C.F.C.D. PERSONNEL	MADDOCK DEBRIS BASIN, DUARTE
1084	8.81	59-76	1680	34 19 50	118 25 45	L.A.C.F.C.D. PERSONNEL	MAY DEBRIS BASIN, NORTH OF SAN FERNANDO
1085	8.81	49-78	1010	34 12 42	118 19 36	L.A.C.F.C.D. PERSONNEL	MC CLURE DEBRIS BASIN, NORTH OF BURBANK
1086	8.81	16-71	495	33 59 18	118 01 30	L.A.C.F.C.D. PERSONNEL	TURNBULL DEBRIS BASIN, NORTHEAST OF WHITTIER
1087-E	S	49-64	1360	34 15 27	118 20 06	L.A.W.D. PERSONNEL	SOUTHWEST OF 10320 SUNLAND BOULEVARD, VERDUGO MOUNTAINS
1088B	SA	17-35	445	33 56 55	117 57 51	B. RETTIG	1271 NORTH HACIENDA BOULEVARD, 5 MILES EAST OF WHITTIER
1089C	S	24-25	25	34 02 32	118 34 46	DANNY ALLEN VAUGHAN	3751 SO. RODEO GROUNDS, MALIBU
1090	SP	10-28	23	33 48 38	118 04 38	A.J. LABOURDETTE	3242 CERRITOS, ORANGE COUNTY
1091	3"P	10-66	41	33 49 50	118 02 22	FOREST LOWERY	5331 BISHOP STREET, CYPRESS, ORANGE COUNTY
1092	SP	11-03	75	33 51 57	117 59 50	R, AVIS	7681 NINTH STREET, BUENA PARK, ORANGE COUNTY
1093-E	SP AP	11-22	94	33 52 13	117 58 34	ORANGE COUNTY PERSONNEL	COMMONWEALTH AVENUE AND MAGNOLIA STREET AT FULLERTON AIRPORT
1094	3"P	17-87	375	33 55 46	117 54 53	UNION OIL CO. PERSONNEL	PUENTE STREET AND CENTRAL AVENUE, LA HABRA, ORANGE COUNTY
1095	SP AP	18-16	600	33 56 07	117 52 58	U.S. CORP OF ENG. PERSONNEL	ORANGE COUNTY RESERVOIR, NORTH OF BREA
1096	SP	19-06	670	33 55 53	117 47 43	NORMAN SLATON	CARBON CANYON AT LA VIDA SPRINGS, ORANGE COUNTY
1097	SP	19-43	1200	33 57 58	117 45 40	S.M. STOODY	CARBON CANYON SUMMIT, SAN BERNARDINO COUNTY
1098	SP	19-11	950	33 59 05	117 47 00	ORANGE COUNTY PERSONNEL	TONNER CANYON ROAD EAST OF SAN BERNARDINO COUNTY LINE
1099	S	29-49	280	34 00 20	118 03 30	IRA D. CATE	10234 STRONG AVENUE, NORTHWEST OF WHITTIER
1101	S	111-18	2430	34 43 08	118 17 22	JOSEPH COLLETTI	9023 WEST AVENUE H, DEL SUR, MOJAVE DESERT
1102B	ST	52-91	5050	34 16 53	118 00 07	L.A.C.F.C.D. PERSONNEL	SOUTH OF ANGELES CREST HIGHWAY AT HEAD OF BOBCAT CANYON
1104	S	71-40	1625	34 29 37	118 27 25	U.S.F.S. PERSONNEL	31251 BOUQUET CANYON, SAUGUS
1105B	S	109-46	2855	34 44 23	118 27 15	H.R. SAVAGE	18333 WEST AVENUE F8, FAIRMONT
1106	SP AP	110-99	2450	34 42 12	118 18 32	R.C. FORSYTH	10146 WEST AVENUE I, LANCASTER
1107B	SA	49-76	1225	34 14 20	118 20 27	LOIS J. BREWER	8825 LA TUNA CANYON ROAD, SUN VALLEY
1107C	SA	49-86	1250	34 14 06	118 19 00	L.A. PIERCE	8504 LA TUNA CANYON ROAD, VERDUGO MOUNTAINS
1108	SA	86-12	2950	34 34 42	118 10 58	MRS. GEORGE HODGES	2712 WEST AVENUE R. PALMDALE
1109	ST	56-71	8650	34 16 53	117 37 00	L.A.C.F.C.D. PERSONNEL	SOUTHEAST OF SAN ANTONIO PEAK, SAN BERNARDINO COUNTY
1110	8.81	39-94	987	34 09 13	118 12 01	L.A.C.F.C.D. PERSONNEL	SCHOLL DEBRIS BASIN, GLENDALE
1111B	S	77-38	4750	34 24 55	117 51 42	R.C. JERRETT	WEST OF PUNCH BOWL CANYON, SOUTH OF VALYERMO
1112	ST	54-31	4025	34 17 04	117 51 58	L.A.C.F.C.D. PERSONNEL	WEST OF SMITH MOUNTAIN, BEAR CANYON, SAN GABRIEL MOUNTAINS
1113	SP AP	8-76	30	33 49 54	118 13 30	T.J. CLEMMER	21718 SOUTH ALAMEDA STREET, SOUTH OF COMPTON
1114	AP	29-17	255	34 01 15	118 05 00	U.S. C. OF E. PERSONNEL	WHITTIER NARROWS DAM, NEAR LINCOLN BOULEVARD
1115	AP	45-24	2120	34 09 24	117 40 20	U.S. C. OF E. PERSONNEL	BELOW SAN ANTONIO DAM AT CARETAKER'S HOUSE
1116	S	4-70	15	33 47 38	118 07 15	BAIRD MILNOR	2124 SAN ANSELINE AVENUE, LONG BEACH
1117	S	95-80	3825	34 41 55	118 30 35	U.S.F.S. PERSONNEL	21526 PINE CANYON ROAD, LAKE HUGHES
1118	AP	9-74	55	33 51 45	118 07 43	GEORGE MC AULLEY	5626 PEARCE AVENUE, LAKEWOOD
1119	ST	94-90	4350	34 41 30	118 36 20	L.A.C.F.C.D. PERSONNEL	SOUTH SLOPE OF LIEBRE MOUNTAIN AT HEAD OF FISH CANYON - ATMORE MEADOW
1120	ST	65-93	7900	34 22 10	117 48 10	L.A.C.F.C.D. PERSONNEL	1/4 MILE SSE OF MT. LEWIS NORTHEAST SLOPE OF SAN GABRIEL MOUNTAINS
1121	S	52-22	5550	34 16 43	118 04 38	U.S. ARMY PERSONNEL	BARLEY FLAT, SAN GABRIEL MOUNTAINS
1122	8.81	50-35	2100	34 14 52	118 15 43	L.A.C.F.C.D. PERSONNEL	1/2 MILE NORTH OF FOOTHILL BOULEVARD AT END OF BOSTON AVENUE, LA CRESCENTA
1123	SP	76-45	4325	34 26 50	117 57 12	ELEANOR T. OPID	ONE MILE WEST AND 1/4 MILE SOUTH OF CIMA MESA ROAD
1124	S	51-94	4625	34 15 30	118 06 17	DAN LAWYER	JUNCTION OF ANGELES CREST HIGHWAY AND MT. WILSON ROAD
1125	S	30-78	460	34 01 00	117 55 15	H.J. GRUETER	ONE HALF MILE NORTH OF BAILEY BOULEVARD AND WEST OF PASS AND COVINA ROAD
1126	8.81	48-99	780	34 12 30	118 24 35	W. WOODSON	12730 SATICOY STREET, LOS ANGELES
1127	S	38-62	615	34 10 47	118 20 07	FIRE STATION PERSONNEL	2305 WEST BURBANK BOULEVARD, BURBANK
1128	SP	67-63	6200	34 21 40	117 38 10	MICHAEL WOOD	APPLE AND CEDAR STREETS, WRIGHTWOOD, SAN BERNARDINO COUNTY
1129	S	20-87	340	34 02 52	118 54 57	M.E. GORDON	34035 PACIFIC COAST HIGHWAY, MALIBU
1130	S	79-25	4130	34 26 32	117 40 25	TOM BUCHANAN	SOUTHWEST OF HIGHWAY 138 AND FORT TEJON ROAD, EAST OF PUZZLE CANYON
1131	S	43-39	705	34 06 25	117 51 40	HOMER W. WALKER	161 EAST ARROW HIGHWAY, COVINA
1132	S	80-70	2850	34 35 52	118 43 25	U.S.F.S. PERSONNEL	ONE QUARTER MILE WEST OF GOLDEN STATE HIGHWAY AT OAK FLAT
1133	ST	53-59	2600	34 12 25	117 56 43	L.A.C.F.C.D. PERSONNEL	FISH CANYON, NORTHEAST OF STONE CABIN, SAN GABRIEL MOUNTAINS
1135	SP	1-82	260	33 46 40	118 25 10	COL. W.C. PLATT	2101 PALOS VERDES DRIVE WEST, PALOS VERDES ESTATES
1136	S	42-56	580	34 08 25	117 56 47	FIRE STATION PERSONNEL	1135 NORTH FISH CANYON ROAD, DUARTE
1137	S	49-99	1160	34 12 17	118 18 15	A. MC DONALD	1501 WALNUT AVENUE, ABOVE STOUGH CANYON DEBRIS BASIN, BURBANK
1138	SAP	51-95	5900	34 14 45	118 06 15	MR. SMALLWOOD	0.3 MILE SOUTHEAST OF MT. DISAPPOINTMENT, SAN GABRIEL MOUNTAINS
1139	SP	2-23	1200	33 45 40	118 22 20	C. WOOD	50 CREST ROAD WEST, ROLLING HILLS
1140	8.81	29-31	305	34 04 53	118 03 55	L.A. CO. F. & F.W. PERSONNEL	9319 EAST VALLEY BOULEVARD, ROSEMEAD
1141	S	72-35	1825	34 26 35	118 21 50	GEORGE SUBLET	0.6 MILE NORTH OF SOLEDAD CANYON ROAD AND SANTA CLARA RIVER
1142	S	70-78	1200	34 24 50	118 31 25	JOHN PERCIVALLE	SOLEDAD CANYON ROAD, ONE MILE EAST OF BOUQUET CANYON ROAD
1143	S	60-68	1575	34 19 05	118 20 22	EARL D. WILCOX	LITTLE TUJUNGA CANYON ROAD, 0.5 MILE ABOVE GOLD CREEK ROAD, SAN GABRIEL MTS.
1144	S	54-53	2225	34 15 43	117 50 40	TED TRAVIS	CONFLUENCE OF SAN GABRIEL RIVER NORTH FORK AND BICHOTA CANYON, SAN GABRIEL MTS.
1145	SP	45-56	1605	34 07 57	117 38 38	LIBERTY GROVES PERSONNEL	495 EAST 19TH STREET, UPLAND
1149	SP	49-93	1460	34 15 34	118 18 19	FRANK T. STEVENS	10635 LEOLANG AVENUE, SUNLAND

RAIN GAGE STATION LOCATION

SEASON 1959-60

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. OF GAGE	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
X 6	SA	36-86	1240	34 08 15	118 30 57	L.A.W.D. PERSONNEL	0.4 MILE SOUTH OF ENCINO RESERVOIR
X12B	S	90-72	2930	34 34 20	117 43 23	ED MEYERS	22721 EAST AVENUE R, LANCASTER, WILSONA DISTRICT
X12C	S	90-42	2880	34 34 20	117 45 15	R.A. KEWISH	37712 210TH STREET, EAST LANCASTER, WILSONA DISTRICT
X15	S	116-16	3075	34 44 06	117 46 58	M.R. CARD	19562 EAST AVENUE G, LANCASTER, HI VISTA DISTRICT
X19	SP	50-43	3400	34 15 52	118 15 13	U.S.F.S. PERSONNEL	WEST SIDE COOKS CANYON, SAN GABRIEL MOUNTAINS
X21	SP	50-63	4425	34 15 41	118 13 50	U.S.F.S. PERSONNEL	WEST OF PICKENS CANYON, SAN GABRIEL MOUNTAINS
X22	ST	65-44	6700	34 21 27	117 51 05	L.A.C.F.C.D. PERSONNEL	ISLIP SADDLE, NORTH OF ANGELES CREST HIGHWAY, SAN GABRIEL MOUNTAINS
X23	ST	66-12	7250	34 22 16	117 46 51	L.A.C.F.C.D. PERSONNEL	DORR CANYON, EAST OF ANGELES CREST HIGHWAY, SAN GABRIEL MOUNTAINS
X24	ST	66-72	7350	34 22 35	117 43 16	L.A.C.F.C.D. PERSONNEL	GRASSY HOLLOW, NORTH OF ANGELES CREST HIGHWAY SAN GABRIEL MOUNTAINS
X25	ST	67-03	7880	34 21 58	117 41 29	L.A.C.F.C.D. PERSONNEL	BEAR GULCH WEST OF PRAIRIE FORK ROAD, SAN GABRIEL MOUNTAINS
X26	ST	67-25	8450	34 20 58	117 40 24	L.A.C.F.C.D. PERSONNEL	NORTH OF PRAIRIE FORK ROAD NORTHWEST OF MT. BALDY
X27	ST	67-56	8125	34 20 20	117 38 57	L.A.C.F.C.D. PERSONNEL	BLUE RIDGE EAST OF SAN BERNARDINO COUNTY LINE
X28B	A	67-14	8150	34 21 25	117 40 50	D.O. BURNS	TOP OF HOLIDAY HILL CHAIR LIFT - NORTH OF PRAIRIE FORK ROAD
X29	SA	53-97	4100	34 13 35	117 54 30	L.A.C.F.C.D. PERSONNEL	0.5 MILE WEST NORTHWEST OF PINE MOUNTAIN, SAN GABRIEL MOUNTAINS
X30	S	51-04	3050	34 15 33	118 11 32	U.S.F.S. PERSONNEL	NEAR ANGELES CREST HIGHWAY AND MT. LUKENS TRUCK TRAIL, SAN GABRIEL MOUNTAINS
X31	SAP	51-06	3250	34 14 05	118 11 47	U.S.F.S. PERSONNEL	2.5 MILES WEST OF ANGELES CREST GUARD STATION, SAN GABRIEL MOUNTAINS
X32	8.81	50-97	1925	34 13 28	118 12 17	L.A.C.F.C.D. PERSONNEL	HAY CANYON N.E. OF ALTA CANADA, SAN GABRIEL MOUNTAINS
X33	8.81	50-66	1890	34 14 10	118 14 12	L.A.C.F.C.D. PERSONNEL	NORTHEAST OF FRANCES AND LA CRESCENTA AVENUE, LA CRESCENTA

TABLE VIII

RAIN GAGE STATION LOCATION

SEASON 1960-61

STA. NO.	TYPE GAGE	QUAD INDEX	ELEV. OF GAGE	NORTH LAT. ° ' "	WEST LONG. ° ' "	OBSERVER	LOCATION
11C	SPA	37-87	867	34 07 14	118 24 38	L.A.W.D. PERSONNEL	UPPER FRANKLIN CANYON RESERVOIR, 2300 FRANKLIN CANYON ROAD
15	SA	37-41	695	34 10 48	118 27 03	L.E. SWINNEY	14601 AETNA AVENUE, VAN NUYS
15B	SA	37-42	695	34 10 42	118 27 28	R.F. RIEDER	14931 W. CALIFA STREET, VAN NUYS
18C	S	36-63	790	34 10 06	118 32 07	J.S. MAGNUSON	18448 VENTURA BOULEVARD, RESEDA
18D	S	36-64	850	34 09 28	118 32 04	N. DEL SELVA	5011 NESTLE STREET, RESEDA
28D	SP	48-32	950	34 16 22	118 27 50	SAN FERNANDO LEMON ASSOCIATION	15300 SAN FERNANDO MISSION BOULEVARD, SAN FERNANDO
28F	SP	48-32	977	34 16 40	118 28 06	CHARLES MAULE	SEPULVEDA BOULEVARD AND RINALDI STREET, SAN FERNANDO
43B	S	2-20	450	33 47 47	118 22 12	OON BARKER	PALOS VERDES ESTATES, AT GOLF COURSE
43C	S	7-09	250	33 48 02	118 23 25	R.W. HIATT	PALOS VERDES ESTATES, AT FIRE STATION, PALOS VERDES DRIVE W. AND VIA CORTA
43D	S	2-00	216	33 47 58	118 23 29	GEORGE TALLY	340 PALOS VERDES DRIVE WEST, PALOS VERDES ESTATES
44	S	1-85	125	33 44 30	118 24 38	A. SACCAMAGNO	POINT VICENTE LIGHT HOUSE, SOUTHWEST OF PALOS VERDES DRIVE WEST
44B	S	1-95	150	33 44 33	118 24 31	G.W. TAYLOR	NORTHWEST OF POINT VICENTE LIGHTHOUSE, SOUTHWEST OF PALOS VERDES DRIVE WEST
52B	S	51-44	3000	34 15 32	118 09 14	W. LOGAN	SWITZER'S CAMP, ARROYO SECO, SAN GABRIEL MTS.
54C	SPA	63-55	4300	34 20 55	118 02 55	E.T. HENSLEY	JUNCTION NORTH AND MIDDLE FORKS, ALDER CREEK ABOVE BIG TUJUNGA CANYON
63B	SA	41-81	1400	34 11 03	118 01 09	R.E. SANDERS	SANTA ANITA DAM AT CARETAKER'S HOUSE
67D	S	41-95	560	34 08 57	118 00 04	G. DOUGHERTY	119 WEST PALM AVENUE, MONROVIA
70C	SA	42-93	845	34 09 47	117 53 37	TOM S. DINGMAN	MOUTH OF SAN GABRIEL CANYON, 0.15 MILE EAST OF ROBERT'S CANYON
78B	SP	54-50	3300	34 17 25	117 50 27	U.S.F.S. EMPLOYEES	SAN GABRIEL NORTH FORK AT COLDBROOK CREEK
82D	S	67-11	7500	34 22 53	117 41 05	U.S.F.S. PERSONNEL	TOP OF TABLE MOUNTAIN, NORTHEAST OF BIG PINES RECREATION PARK
85C	SA	56-46	4275	34 14 12	117 39 32	U.S.F.S. PERSONNEL	U.S.F.S. GUARD STATION, MT. BALDY
87	SAP	44-33	1485	34 10 03	117 46 02	U.S.F.S. PERSONNEL	9292 NORTH MAINFORK, SAN DIMAS CANYON ROAD
87B	SAP	44-33	1485	34 10 04	117 46 02	U.S.F.S. PERSONNEL	9292 NORTH MAINFORK, SAN DIMAS CANYON ROAD
89B-E	SA	44-24	1350	34 09 10	117 46 17	J.L. REVIS	SAN DIMAS CANYON BELOW DAM AT CARETAKER'S HOUSE
106C	S	16-62	340	33 58 27	118 01 57	K.R. WARREN	333 EAST PENN STREET, WHITTIER
106D	S	16-62	320	33 58 27	118 01 58	K.R. WARREN	333 EAST PENN STREET, WHITTIER
110	S	28-70	500	34 05 40	118 07 43	L.E. MOELLER	7 NORTH SECOND STREET, ALHAMBRA
110B	S	40-69	533	34 06 05	118 07 52	L.E. MOELLER	SOUTHEAST CORNER OF GARFIELD AVENUE AND MC LEAN STREET, ALHAMBRA
116C	SA	13-43	155	33 57 54	118 21 15	R.C. JACKSON	11 REGENT STREET, INGLEWOOD
119D	S	25-44	355	34 03 19	118 27 22	JOSEPHINE MC CARTHY	NATIONAL MILITARY HOME, WILSHIRE BOULEVARD AND SEPULVEDA BOULEVARD, SAWTELLE
119D	S	25-44	355	34 03 19	118 27 22	JERRY WASHINGTON	NATIONAL MILITARY HOME, WILSHIRE BOULEVARD AND SEPULVEDA BOULEVARD, SAWTELLE
122D	S	98-18	3125	34 37 04	118 17 17	RALPH RITTER	8858 ELIZABETH LAKE-PINE CANYON ROAD, SOUTH OF AMARGOSA CREEK
122F	S	98-18	3200	34 37 12	118 17 08	RALPH RITTER	8755 CALVA STREET, NORTHEAST OF 90TH STREET WEST AND ELIZ. LAKE, PINE CAN. RD.
127-E	SP	70-71	1511	34 28 55	118 31 40	JAMES B. RAY	DRY CANYON DAM, 2 MILES ABOVE SAN FRANCISQUITO CANYON ROAD.
127B-E	SP	70-71	1511	34 28 55	118 31 32	JAMES B. RAY	DRY CANYON DAM, 2 MILES ABOVE SAN FRANCISQUITO CANYON ROAD.
130B	S	106-85	4025	34 44 37	118 42 43	PHILLIP E. GOODELL	47376 OLD RIDGE ROUTE, SANBERG
167B	S	41-64	611	34 09 31	118 02 01	ARCADIA WATER DEPT. PERSONNEL	67 WEST ORANGE GROVE AVENUE, ARCADIA
206	S	30-94	467	34 03 19	117 54 23	P.R. JACKSON	1126 SOUTH AZUSA AVENUE, VALENCIA HEIGHTS, WEST COVINA
215D	S	9-71	70	33 52 55	118 07 25	RALPH MC CLURG	9834 EAST FLOWER STREET, BELLFLOWER
215F	S	9-72	68	33 52 44	118 07 31	RALPH MC CLURG	9735 PARK STREET, BELLFLOWER
230C	SP	44-68	1255	34 06 57	117 44 11	C.F. ELDER	4055 NORTH SAN ANTONIO AVENUE, EAST OF THOMPSON CREEK, LA VERNE
230D	SP	44-68	1250	34 06 42	117 43 54	C.F. ELDER	899 MARYHURST DRIVE, CLAREMONT
266C	SP	17-04	301	33 57 12	117 59 56	DAVE CEDERSTROM	15305 CARRETERA AVENUE, EAST WHITTIER
274	SP	85-68	3250	34 30 50	118 14 10	E.L. CLINGAN	35022 NORTH SHANNON VALLEY ROAD, ACTON
277	S	108-17	3700	34 43 15	118 35 00	PETER WOKIN	25202 WEST PINE CANYON ROAD, 8.7 MILES NORTHWEST OF LAKE HUGHES POST OFFICE
278B	S	26-86	203	34 02 00	118 18 46	FRANK OFDON	CLARK MEMORIAL LIBRARY, 2205 WEST ADAMS, LOS ANGELES
284C	S	59-22	1490	34 22 40	118 28 35	SAM HURT	PLACERITA CANYON, EAST OF NEWHALL
292B-E	S	36-85	1000	34 08 57	118 30 55	H. MC CAULAY	ONE MILE SOUTHWEST OF ENCINO AT ENCINO DAM
292C	S	36-84	925	34 09 00	118 30 45	H. MC CAULAY	ONE MILE SOUTHWEST OF ENCINO BELOW ENCINO DAM
334E-E	SA	53-35	2330	34 14 37	117 57 37	JOHN C. BARR	COGSWELL DAM, WEST FORK SAN GABRIEL CANYON
390B-E	SP	43-21	1210	34 10 53	117 52 43	DAVID S. BLACKHURST	MORRIS DAM, SAN GABRIEL CANYON
405B	S	73-06	2150	34 26 43	118 17 33	FRED ECKLES	11.7 MILES EAST OF SOLEMINT ON SOLEDAD CANYON ROAD
409	S	93-12	2425	34 40 34	118 46 53	W. PRICE	18 MILES NORTH OF CASTAIC JUNCTION ON EAST SIDE OF RIDGE ROUTE
420A	S	74-07	2980	34 25 44	118 11 48	C.C. BREVIDORO	3.3 MILES SOUTH OF ACTON ON MT. GLEASON TRUCK TRAIL
420C	S	74-07	3000	34 25 43	118 11 48	C.C. BREVIDORO	3.3 MILES SOUTH OF ACTON ON MT. GLEASON TRUCK TRAIL
436B	AP	49-03	975	34 15 43	118 23 50	U.S.C. OF E. PERSONNEL	12174 OSBORNE PLACE AT HANSEN DAM, SAN FERNANDO
441C-E	S	86-82	2662	34 34 28	118 06 50	WAYNE STICE	COUNTY ROAD DEPARTMENT MAINTENANCE YARD, 38126 SIERRA HIGHWAY, PALMDALE
441D-E	S	86-82	2662	34 34 25	118 06 45	WAYNE STICE	COUNTY ROAD DEPARTMENT MAINTENANCE YARD, 38126 SIERRA HIGHWAY, PALMDALE
442	SP	78-53	3810	34 28 05	117 44 50	E.A. EBERLE	31721 NORTH 214TH STREET EAST, LLANO
442B	SP	78-53	3810	34 28 05	117 44 51	E.A. EBERLE	31721 NORTH 214TH STREET EAST, LLANO
443B	S	21-80	1700	34 05 35	118 48 52	A.O. BEACH	SANTA MONICA MOUNTAINS, SOUTH SOUTHWEST OF MULHOLLAND HIGHWAY AND BACKUS ROAD
449B	SAP	41-03	880	34 10 06	118 05 33	H.E. WILSON	EATON DAM, ALTADENA
455	S	99-61	2395	34 40 57	118 08 03	L.R. POTTER	STATE HIGHWAY MAINTENANCE YARD, 1.1 MILES SOUTH OF LANCASTER
455B	S	99-61	2395	34 40 57	118 08 03	L.R. POTTER	STATE HIGHWAY MAINTENANCE YARD, 1.1 MILES SOUTH OF LANCASTER
473B	S	72-63	2200	34 27 43	118 19 50	J.J. MURRAY	AQUA DULCE CANYON, EAST OF SAUGUS
695B	S	50-71	1850	34 17 12	118 13 32	J.O. LANNON	2131 WEST BIG TUJUNGA ROAD, TUJUNGA
695B	S	50-71	1850	34 17 12	118 13 32	U.S.F.S. PERSONNEL	2131 WEST BIG TUJUNGA ROAD, TUJUNGA
726	SAP	51-16	2300	34 14 00	118 10 30	U.S.F.S. PERSONNEL	ANGELES CREST GUARD STATION AT FALLS CANYON, ARROYO SECO
735B	S	35-40	925	34 11 37	118 39 27	LESTER RUSHWORTH	6761 N. VALLEY CIRCLE DRIVE, CANOGA PARK
735C	S	35-41	945	34 11 22	118 39 30	B.L. CUNDIFF	6689 N. VALLEY CIRCLE DRIVE, CANOGA PARK
1002	S	50-03	1605	34 16 03	118 17 50	F.P. EADE	7618 LE BERTHON STREET, TUJUNGA
1007B	S	64-25	5900	34 20 40	117 58 41	R.O. STAVIG	CAMP VALCREST, ANGELES CREST HIGHWAY, NORTHEAST OF CHILAO
1007C	S	64-25	5900	34 20 39	117 58 40	R.O. STAVIG	CAMP VALCREST, ANGELES CREST HIGHWAY, NORTHEAST OF CHILAO
1017	SA	75-83	3330	34 27 51	118 01 09	L.A.C.F.C.D. PERSONNEL	LITTLE ROCK CREEK ABOVE SANTIAGO CREEK
1017B	SA	75-72	3325	34 28 41	118 01 27	L.A.C.F.C.D. PERSONNEL	LITTLE ROCK CREEK ABOVE DAM
1021	ST	61-14	4500	34 21 03	118 16 53	L.A.C.F.C.D. PERSONNEL	YERBA BUENA TRAIL BETWEEN SOUTH FORK PACOIMA CANYON AND SLAUGHTER CANYON
1021B	ST	61-14	4515	34 21 03	118 16 52	L.A.C.F.C.D. PERSONNEL	YERBA BUENA TRAIL BETWEEN SOUTH FORK PACOIMA CANYON AND SLAUGHTER CANYON
1021C	ST	61-14	4475	34 21 03	118 16 55	L.A.C.F.C.D. PERSONNEL	YERBA BUENA TRAIL BETWEEN SOUTH FORK PACOIMA CANYON AND SLAUGHTER CANYON
1055	S	56-82	7800	34 16 32	117 36 34	HERB LEFFLER	3.8 MILES NORTHEAST OF MT. BALDY POST OFFICE NORTH OF MT. BALDY NOTCH CAFE
1055B	S	56-92	7735	34 16 30	117 36 30	HERB LEFFLER	3.8 MILES NORTHEAST OF MT. BALDY POST OFFICE, EAST OF MT. BALDY NOTCH CAFE
1089C	S	24-25	25	34 02 32	118 34 46	DANNY ALLEN VAUGHN	3751 SOUTH RODEO GROUNDS, MALIBU
1089D	S	24-25	75	34 02 58	118 34 46	HAROLD Z. DAVIS	3221 TOPANGA CANYON BOULEVARD, MALIBU
1107B	SA	49-76	1225	34 14 20	118 20 27	LOIS J. BREWER	8825 LA TUNA CANYON ROAD, SUN VALLEY
1131	S	43-39	705	34 06 25	117 51 40	HOMER W. WALKER	161 EAST ARROW HIGHWAY, COVINA
1131B	S	43-39	704	34 06 25	117 51 39	RICHARD JACKSON	20058 ARROW HIGHWAY, COVINA
1135	SP	1-82	260	33 46 40	118 25 10	COL. W.C. PLATT	2101 PALOS VERDES DRIVE WEST, PALOS VERDES ESTATES
1135B	SP	1-82	250	33 46 37	118 25 15	COL. W.C. PLATT	2105 PALOS VERDES DRIVE WEST, PALOS VERDES ESTATES
1144	S	54-53	2225	34 15 43	117 50 40	TED TRAVIS	CONFLUENCE OF SAN GABRIEL RIVER NORTH FORK AND BICHOTA CANYON, SAN GABRIEL MTS.
1144	SA	54-53	2225	34 15 43	117 50 40	TED TRAVIS	CONFLUENCE OF SAN GABRIEL RIVER NORTH FORK AND BICHOTA CANYON, SAN GABRIEL MTS.
1146	A	52-88	2575	34 12 52	118 01 05	LOUIS LUEBKERT	SANTA ANITA CANYON NORTH OF FERN LODGE, SAN GABRIEL MTS.
1147	S	36-65	1000	34 08 52	118 31 53	ROBERT JONES	5011 NESTLE STREET, TARZANA
1148	S	30-95	550	34 02 48	117 54 17	E.S. GALSTER	1732 AZUSA AVENUE, NORTH SLOPE OF SAN JOSE HILLS, WEST COVINA
1150	S	49-00	1350	34 17 54	118 23 41	U.S.F.S. EMPLOYEES	0.3 MILE ABOVE LOPEZ CANYON ON INDIAN CANYON, SAN GABRIEL MTS.
X6	SA	36-86	1240	34 08 15	118 30 57	L.A.W.D. PERSONNEL	0.4 MILE SOUTH OF ENCINO RESERVOIR
X12B	S	90-72	2930	34 34 20	117 43 23	ED MEYERS	22721 EAST AVENUE R, LANCASTER, WILSONA DISTRICT

LEGEND REGARDING GAGE TYPE AND OWNERSHIP

S	STANDARD 8" DIAMETER NON RECORDING GAGE OWNED BY FLOOD CONTROL DISTRICT
A	AUTOMATIC RECORDING GAGE OWNED BY FLOOD CONTROL DISTRICT
ST	STORAGE TYPE GAGE OWNED BY FLOOD CONTROL DISTRICT
SP	8" DIAMETER NON RECORDING GAGE PRIVATELY OWNED
6"P	6" DIAMETER NON RECORDING GAGE PRIVATELY OWNED
4½"P	4½" DIAMETER NON RECORDING GAGE PRIVATELY OWNED
3"P	3" DIAMETER NON RECORDING GAGE PRIVATELY OWNED
8.81	SPECIAL TYPE COLLECTOR RING, (8.81" DIAMETER) WITH A GLASS GRADUATE MEASURING TUBE
AP	AUTOMATIC RECORDING GAGE PRIVATELY OWNED
SUFFIX B OR C	DENOTES SECOND AND THIRD LOCATION OF STATION IN SAME LOCALITY UNDER NEARLY SAME CONDITIONS
SUFFIX E	DENOTES EVAPORATION PAN AT STATION

QUAD INDEX NUMBERS

THE "QUAD" INDEX NUMBERS ASSIGNED TO PRECIPITATION STATIONS SERVE AS A LOCATION GUIDE. THE PORTION OF THE INDEX NUMBER PRECEDING THE HYPHEN INDICATES THE NUMBER OF THE 1:24000 SCALE TOPOGRAPHIC QUADRANGLE AS PUBLISHED BY THE UNITED STATES GEOLOGICAL SURVEY. THESE "QUADS" HAVE BEEN NUMBERED FROM LEFT TO RIGHT BEGINNING WITH THE MOST SOUTHWESTERLY AND ENDING WITH THE MOST NORTHEASTERLY "QUAD" IN AND NEAR LOS ANGELES COUNTY. THE TWO DIGITS FOLLOWING THE HYPHEN INDICATE THE HORIZONTAL AND VERTICAL COORDINATES RESPECTIVELY OF EACH "QUAD". THE "QUADS" HAVE BEEN DIVIDED INTO TEN EQUAL DIVISIONS BOTH HORIZONTALLY AND VERTICALLY NUMBERED FROM 0 TO 9 READING FROM LEFT TO RIGHT AND TOP TO BOTTOM RESPECTIVELY.

NOTE: RAIN GAGE STATIONS FOR SEASONS 1960-61 WERE IDENTICAL WITH SEASON 1959-60 EXCEPT AS SHOWN FOR 1960-61.

TABLE IX

89-YEAR SEASONAL RAINFALL INDICES
for
SELECTED AREAS IN LOS ANGELES COUNTY

SEASON	"A" COASTAL PLAIN	"B" SAN FERNANDO VALLEY	"C" SAN GABRIEL VALLEY	"D" SAN GABRIEL MOUNTAINS	"E" SANTA MONICA MOUNTAINS	"F" SIERRA PELONA	"G" DESERT	COUNTY INDEX *
1872-73	95	95	77	79	94	86	78	84
74	154	154	150	151	150	151	150	151
75	120	121	82	86	120	100	83	97
76	167	167	124	129	167	144	125	141
77	35	27	27	25	32	17	17	24
78	137	123	137	125	131	64	64	100
79	73	57	72	65	66	38	38	54
80	125	108	125	123	122	121	131	124
81	79	66	78	73	77	56	60	67
82	64	57	68	68	64	78	79	71
1882-83	70	63	75	69	71	54	45	60
84	236	221	239	246	235	262	284	254
85	57	56	57	57	58	50	55	55
86	147	141	129	140	153	169	196	161
87	85	84	79	87	84	106	123	98
88	102	83	123	119	105	107	109	108
89	126	124	130	132	127	133	142	133
90	166	200	194	203	146	225	231	205
91	93	78	104	100	99	91	97	95
92	77	61	82	78	71	70	71	73
1892-93	157	138	156	148	133	126	123	138
94	49	39	56	50	47	46	49	48
95	106	111	122	121	101	92	52	94
96	60	52	54	54	56	52	116	69
97	122	112	108	108	111	102	50	95
98	49	41	57	46	42	23	37	40
99	45	27	40	32	38	28	33	34
00	61	52	56	58	59	48	87	63
01	104	106	115	103	102	111	96	104
02	72	58	64	63	71	53	60	62
1902-03	140	119	120	117	128	110	117	120
04	56	52	55	55	58	45	38	49
05	122	134	127	121	126	138	131	129
06	142	120	126	128	124	111	119	123
07	129	145	139	139	150	166	156	148
08	87	91	93	93	90	95	96	93
09	120	108	123	113	114	95	80	103
10	84	76	90	89	84	106	105	95
11	111	119	125	137	118	150	133	132
12	60	86	75	80	71	81	67	74
1912-13	75	85	76	79	74	88	70	78
14	145	162	162	163	149	159	144	154
15	134	128	120	118	134	153	133	133
16	139	130	139	140	133	116	108	126
17	95	96	94	92	94	80	66	84
18	95	112	90	105	114	108	93	101
19	70	72	68	71	79	68	73	71
20	75	82	90	95	77	82	78	83
21	97	107	98	96	98	91	85	93
22	124	140	136	176	122	159	130	145
1922-23	72	72	76	85	71	84	73	78
24	47	48	54	53	44	46	59	51
25	55	61	63	65	54	54	53	57
26	90	119	109	116	97	114	104	107
27	109	127	123	108	105	110	114	112
28	82	70	74	62	63	61	62	66
29	76	73	78	68	75	69	64	70
30	73	77	78	75	73	77	92	79
31	81	92	80	77	92	103	114	94
32	110	123	111	117	110	128	145	125
1932-33	74	77	68	66	75	81	75	74
34	80	95	99	74	92	64	44	70
35	133	123	123	124	119	133	153	134
36	77	79	77	72	87	73	49	69
37	144	144	145	142	149	147	140	144
38	143	150	146	158	154	151	147	150
39	124	119	100	103	115	123	139	121
40	93	98	79	75	100	78	78	82
41	222	237	202	187	228	231	230	219
42	83	78	70	72	80	82	90	81
1942-43	120	150	146	157	141	152	164	150
44	127	141	115	136	137	160	227	161
45	91	89	90	95	88	86	87	92
46	81	82	80	93	82	101	90	90
47	92	87	91	100	85	95	94	94
48	45	46	53	52	49	51	62	53
49	57	50	61	58	54	55	67	59
50	69	68	74	64	74	74	55	66
51	54	54	51	43	50	37	36	43
52	164	189	158	153	188	176	184	172
1952-53	68	69	63	55	70	60	68	62
54	87	80	85	82	95	85	93	87
55	80	83	72	69	82	84	78	78
56	103	102	87	71	99	85	62	82
57	68	76	72	70	72	79	73	73
58	155	161	168	162	168	181	166	167
59	44	50	46	54	49	58	50	51
60	63	58	55	47	66	52	59	56
61	35	39	34	40	39	50	39	41
85-YEAR NORMAL RAINFALL	14.15	16.77	18.83	25.89	19.27	15.32	7.09	15.75
1959-60 RAINFALL	8.91	9.73	10.36	12.17	12.72	7.97	4.18	8.57
1960-61 RAINFALL	4.95	6.54	6.40	10.36	7.52	7.66	2.77	6.40
AREA IN SQUARE MILES	597	272	303	748	224	855	953	3952

NOTE: * INDICATES WEIGHTED AVERAGE INDEX OF AREAS

LEGEND

- ● FLOOD CONTROL STANDARD GAGE'S
- ○ FLOOD CONTROL 8.81" DIAMETER GAGES
- ◉ FLOOD CONTROL STORAGE TYPE GAGES
- ▣ FLOOD CONTROL AUTOMATIC GAGES
- ▲ STANDARD GAGES (OTHER THAN F.C. DIST.)
- ◆ AUTOMATIC GAGES (OTHER THAN F.C. DIST.)
- 1918 CAPITAL LETTERS (A,B,ETC.) FOLLOWING A STATION NUMBER DENOTE SUCCESSIVE LOCATIONS OF A GAGE IN A 'LOCALITY'
- -E AT A STATION DENOTES AN EVAPORATION PAN

SCALE 1 0 1 2 3 4 5 6 MILES

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

LOCATION OF
ACTIVE RAINGAGES
AND
ISOHYETAL MAP
SEASON 1959 - 1960

APPROVED BY _____ CHIEF ENGINEER

SUBMITTED BY	RECOMMENDED BY	DATE	
CHIEF, HYDRAULIC DIVISION	ASST. CHIEF ENGINEER	1-3-61	2H-149

COMPILED BY: M.D. CHECKED BY: P.H. DRAWN BY: M.M.

MAP 1

LEGEND

- ● FLOOD CONTROL STANDARD GAGES
- ○ FLOOD CONTROL 8.81" DIAMETER GAGES
- ◉ FLOOD CONTROL STORAGE TYPE GAGES
- ◘ FLOOD CONTROL AUTOMATIC GAGES
- ▲ STANDARD GAGES (OTHER THAN F.C. DIST.)
- ◉ AUTOMATIC GAGES (OTHER THAN F.C. DIST.)

1918 CAPITAL LETTERS (A,B,etc.) FOLLOWING A STATION NUMBER DENOTE SUCCESSIVE LOCATIONS OF A GAGE IN A LOCALITY

-E AT A STATION DENOTES AN EVAPORATION PAN

SCALE 1 : 0 1 2 3 4 5 6 MILES

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

LOCATION OF ACTIVE RAINGAGES AND ISOHYETAL MAP

SEASON 1960 - 1961

APPROVED BY	CHIEF ENGINEER		
SUBMITTED BY: CHIEF, HYDRAULIC DIVISION	RECOMMENDED BY: ASST. CHIEF ENGINEER	DATE: 1-10-62	2-H152

COMPILED BY P.H. CHECKED BY E.G. DRAWN BY M.K.I.

MAP 11

EVAPORATION RECORDS

EVAPORATION

FOREWORD

This report contains monthly and seasonal data for active evaporation stations reporting to the District during the 1959-60 and 1960-61 seasons; also, 30-year average monthly and seasonal amounts for 26 stations. Daily records of active and inactive District stations as well as some stations of other agencies, are available in the District's files. Monthly and seasonal evaporation has been published in the District's Annual or Biennial Reports on Hydrologic Data since the 1931-32 season. A summary of monthly and seasonal evaporation through the 1958-59 season for active and inactive stations is published in the District's 1957-58 and 1958-59 Biennial Report on Hydrologic Data.

SUMMARY OF EVAPORATION

The following tabulation indicates the maximum and minimum rates of evaporation in inches at stations within the County for the seasons 1959-60 and 1960-61. For comparative purposes, only the evaporation amounts from a 24-inch diameter land evaporation pan equipped with a screen were used. Amounts which have been estimated due to frozen water in pans are not used.

	1959-60	1960-61
Maximum Seasonal Amount - Palmdale	104.69	107.11
Maximum Monthly Amount - Palmdale	17.72 August	17.48 July
Minimum Seasonal Amount - Puddingstone Reservoir	44.08	
Minimum Seasonal Amount - La Fresa - SCE Co.		41.39
Minimum Monthly Amount - Big Dalton Dam	1.14 January	
Minimum Monthly Amount - Opid's (Camp Hi Hill)		1.15 February

Table X , Page 43, lists monthly and seasonal evaporation data including the type of pan used at all active stations during the seasons 1959-60 and 1960-61.

Table XI , Page 44, presents 30-year (1929-1959) average monthly and seasonal equivalent lake evaporation. Various coefficients have been applied depending on the type of pan and method of installation to reduce pan evaporation to lake evaporation on a seasonal basis. Caution should therefore be exercised in application of monthly amounts in that they do not necessarily reflect this coefficient due to non-resonance of curves obtained in plotting pan vs. lake evaporation on a monthly basis.

Map III, Page 45, presents an iso-evaporation map showing 30-year (1929-1959) average equivalent lake evaporation for that portion of the County where measurements are available.

Evaporation is normally measured at 5 p.m. to be consistent with rainfall measurements.

LOCATION AND NUMBER OF STATIONS

The District, with the cooperation of the Los Angeles City Department of Water and Power, the Metropolitan Water District, the Southern California Edison Company, the United States Forest Service, County Departments and individuals received evaporation records from 30 and 29 evaporation stations for the 1959-60 and 1960-61 seasons, respectively. There were 39 evaporation pans utilized during the season 1959-60 and 36 evaporation pans in operation for the 1960-61 season.

Twenty-six and twenty-three pans were on or near reservoirs, for the season 1959-60 and 1960-61, respectively. San Gabriel, Cogswell and Bouquet Canyon Reservoirs are equipped with both lake and land pans. None of the pans at Encino Reservoir were in use during the 1960-61 season due to construction and enlargement of the reservoir.

LENGTH OF RECORD

A land pan was installed for the first time by the District at Santa Anita Dam in March of 1929. The District presently maintains 19 evaporation stations which have been in operation 15 years or more.

EQUIPMENT

1. Land pan, Type L-24

   Twenty-four inches in diameter by 36 inches deep. Installed in ground 33 inches. Water in pan maintained near ground level.

2. Land pan, Type L-24S

   Same as (L-24) above except that it is equipped with a one-fourth inch mesh hardware cloth that rests one and one half inches below top of pan.

3. Land pan, Type L-A48

   Forty-eight inches in diameter by 10 inches deep. Installed with water surface approximately 14 inches above ground level. Water surface in pan maintained at 2 - 3 inches below top of pan.

4. Land pan, Type L-72

   Seventy-two inches in diameter by 36 inches deep. Installed in the ground 33 inches. Water in pan maintained near ground level.

5. Land pan, Type L-36

   Thirty-six inches square by 18 inches deep. Installed in the ground 15 inches. Water in pan maintained near ground level.

6. Lake pan, Type F-36

   Thirty-six inches square by 18 inches deep. Mounted on float equipped with a 6-inch baffle. Pan submerged 15 inches below surface of the lake. Water in pan maintained near lake level.

RESPONSIBILITY

The field and office work pertaining to precipitation, snow pack, temperature, humidity, wind velocity and direction, barometric pressure and evaporation data was under the immediate supervision of Paul A. Haig, who is in charge of the Rainfall and Evaporation Section. Mr. Haig was assisted in the preparation of these data in this report by Ernest W. Godfrey, Hydrographer II.

All field and office procedure of this section was under the direction of Walter J. Wood, Chief, Hydraulic Division and Maxwell F. Burke, Assistant Chief, Hydraulic Division

TABLE X

EVAPORATION RECORDS IN INCHES

SEASONS 1959-60, 1960-61

1959-60

STA. NO.	STATION	TYPE GAGE	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
23	CHATSWORTH RESERVOIR	L-24S	5.06	6.18	4.20	1.80	2.52	3.15	5.16	5.78	6.42	8.32	7.51	6.46	62.56
33A'	PACOIMA DAM	L-24S	6.26	6.95	5.64	3.11	3.50	4.36	6.12	6.38	6.42	8.29	6.58	7.70	71.30
46D	BIG TUJUNGA DAM	L-24S	7.58	6.85	4.96	2.84	3.48	5.03	6.94	7.14	10.28	11.30	10.80	9.85	87.05
57B	OPID'S (CAMP HI HILL)	L-24S	3.15	2.06	.69#	EST.#	EST.#	2.00**	3.93*	4.30	7.60	7.72	7.35	5.22	INC.
63B	BIG SANTA ANITA DAM	L-24S	4.28	4.61	3.66	2.16	2.70	3.12	4.05**	4.02	4.00	5.62	4.77	4.94	47.93**
89B	SAN DIMAS DAM	L-24S	4.05	3.40	2.26	1.48	1.88	2.63	4.40	5.09	6.10	8.32	6.98	6.32	52.91
96B	PUDDINGSTONE DAM	L-24S	3.90	3.80	2.96	1.85	1.74	1.88	3.15	4.00	4.58	6.06	5.34	4.82	44.08
124B	BOUQUET CANYON RESERVOIR	F-36	6.14	5.62	3.97	1.74	2.21	3.26	4.81	6.30	8.02	9.52	9.22	7.28	68.09
124B	BOUQUET CANYON RESERVOIR	L-36	6.98	6.78	4.63	1.92	2.79	4.80	6.40	7.99	10.64	11.82	10.52	8.50	83.77
127	DRY CANYON RESERVOIR	F-36	5.80	6.48	4.07	1.65	2.43	3.56	5.60	6.52	7.54	10.12	8.60	7.40	69.77
223B	BIG DALTON DAM	L-24S	3.66	3.03	1.96	1.14	1.59	2.10	3.54	4.52	5.60	8.08	7.72	7.34	50.28
237C	STONE CANYON RESERVOIR	L-24S	5.66	6.50	5.40	2.28	3.83	3.79	6.52	6.66	6.38	8.87	8.06	7.52	71.47
261B	ACTON - ESCONDIDO CANYON	L-24S	8.42	7.58	5.58	2.70	3.52	5.33	7.84	9.50	12.94	14.29	13.28	10.39	101.37
292B	ENCINO RESERVOIR	L-24S	6.05	5.33	3.47	1.82	2.81	4.10	6.64	7.53	7.57	10.06	9.16	INC.	INC.
292B	ENCINO RESERVOIR	L-A48	7.01	6.53	4.43	2.26	3.08	4.78	7.59	8.62	8.49	11.53	10.23	INC.	INC.
292B	ENCINO RESERVOIR	F-30	6.46	5.49	3.52	2.21	2.93	4.22	6.71	7.70	8.85*	N.R.	N.R.	N.R.	INC.
293	VAN NORMAN LAKE - LOWER DAM	L-24S	7.96	10.50	8.37	3.07	4.02	5.14	7.75	8.90	7.52	10.64	9.04	8.82	91.73
321	PINE CANYON PATROL STATION	L-24S	6.80	5.80	3.48**	1.78	3.01**	5.38**	7.08**	8.71**	12.70	13.38	12.50	9.92	90.54**
334B	COGSWELL DAM	L-24S	6.52	4.82	3.08	1.66	2.52	4.01	5.88	6.28	9.78	11.05	10.58	9.43	75.61
334B	COGSWELL DAM	F-36	8.66	5.32*	2.95	1.79	2.88	4.78	7.04	7.75	10.45	11.61	11.72	INC.	INC.
336	SILVER LAKE RESERVOIR	L-24S	4.68	3.98	2.91	2.18	2.89	3.66	6.00	6.66	6.43	8.17	7.48	6.58	61.62
336	SILVER LAKE RESERVOIR	L-A48	5.18	4.44	3.23	2.66	3.47	5.01	7.81	8.82	7.88	10.08	8.46	7.92	74.96
347	BALDWIN PARK EXPERIMENTAL STATION	L-72	3.33	2.21	1.91	1.06	1.40	2.47	4.44	5.56	5.84	6.86	6.77	5.35	47.20
347	BALDWIN PARK EXPERIMENTAL STATION	L-24S	4.05	3.02	2.05	1.34	1.60	2.68	4.25	5.88	6.34	6.74	6.27	6.35	50.57
347	BALDWIN PARK EXPERIMENTAL STATION	L-24	4.42	3.38	2.33	1.63	2.36**	3.39	5.02	6.47	7.60	8.78	7.98	7.30	60.66**
390B	MORRIS DAM	L-72	5.35	4.31	2.92	1.70	2.50	3.50	5.46	6.36	7.48	9.38	8.74	8.08	65.78
407	NEWHALL R.S. U.S.F.S.	L-24S	5.56	5.08	2.78*	3.80*	4.00*	4.08*	4.50*	6.76*	8.18*	10.40*	9.73	8.05**	72.92*
425B	SAN GABRIEL	L-24S	6.80	5.82	4.18	2.52	2.90	4.06	6.16	7.03	8.33	10.49	9.30	9.34	76.93
425B	SAN GABRIEL	F-36	6.48**	5.16	3.56	2.49	2.94	4.32	6.85	7.41	8.90	10.77	10.58	9.45	78.91**
425B	SAN GABRIEL	L-24	7.24	6.31	4.64	2.82	3.18	4.45	7.10	7.67*	8.34	10.61	9.15	9.12	80.63**
441C	PALMDALE - COUNTY ROAD MAINTENANCE YARD	L-24S	8.08	4.86	2.42	1.30	3.66	5.42	9.45**	11.98	8.90	17.48	17.72	13.42	104.69**
542	FAIRMONT	L-36	8.31	5.21	3.20	2.78	3.16	6.53	8.50	11.63	17.31	18.25	17.49	13.17	115.54
794	LOWER FRANKLIN RESERVOIR	L-24S	6.03	5.73	4.26	3.30	4.15	3.62	7.22	7.32	6.82	8.88	8.52	7.62	73.47
802B	EAGLE ROCK RESERVOIR	L-A48	5.57	5.30	3.75	2.56	3.43	4.54	6.73	7.40	7.13	9.01	7.70	8.29	71.41
1008	LA FRESA - S.C.E. CO.	L-24S	3.02	2.34	2.11	1.73	1.76**	2.55	4.93	6.00	5.03	7.00	7.32	5.13	48.92**
1014D	RIO HONDO SPREADING GROUNDS	L-24S	3.58	2.98	2.16	1.18	1.98	2.44	4.28**	4.70	4.98	6.73	5.90	5.20	46.11**
1037	ARCADIA - ARBORETUM	L-24S	4.46	3.54	2.41	1.72	2.18	2.94	5.06	5.59	6.32	8.05	7.50	6.72	56.49
1071B	DESCANSO GARDENS	L-24S	5.12	4.64	3.24	1.89	2.51	3.50	5.45	6.22	7.36	9.45	8.41	7.85	65.64
1087	GREEN VERDUGO PUMP PLANT	L-A48	8.30	9.19	6.42	4.21	4.99	7.02	9.12	10.14	10.23	13.17	10.36	11.17	104.32

1960-61

23	CHATSWORTH RESERVOIR	L-24S	4.58	2,62	3.74	4.49	4.04	3.82	4.89	5.42	6.08	7.50	6.82	5.44	59.44
33A'	PACOIMA DAM	L-24S	6.32	4.57	5.46	6.46	4.83	4.60	5.26	4.92	5.82	6.54	6.80	6.54	68.12
46D	BIG TUJUNGA DAM	L-24S	7.23	4.15	4.92	5.08	4.34	4.88	6.24	6.35	8.82	9.28	10.16	8.75	80.20
57B	OPID'S (CAMP HI HILL)	L-24S	2.80	#	#	1.19	1.15	1.84	3.94	4.95	7.50	8.75	7.25	5.25	44.62#
63B	BIG SANTA ANITA DAM	L-24S	4.10	3.13	4.16	4.58	3.60	3.25	3.92	3.38	3.87	5.14	4.86	4.38	48.37
89B	SAN DIMAS DAM	L-24S	3.92	1.88	2.08	2.34	2.26	2.68	4.30	4.66	6.18	7.47	7.18	5.58	50.53
96B	PUDDINGSTONE DAM	L-24S	3.52	1.68	1.66	1.57	1.64	2.08	2.85	4.32	5.34	6.68	6.74	5.47	43.55
124B	BOUQUET CANYON RESERVOIR	L-36	6.06	3.44	4.15	4.95	4.20	4.78	6.25	7.76	10.34	11.72	10.23	8.23	82.11
124B	BOUQUET CANYON RESERVOIR	F-36	5.90	3.34	3.94	4.08	3.16	3.30	4.83	5.74	7.62	9.26	8.38	7.13	66.68
127	DRY CANYON RESERVOIR	F-36	5.39	3.62	2.88	4.26	3.48	4.54	4.74	6.37	7.56	9.20	8.76	8.28	69.08
223B	BIG DALTON DAM	L-24S	5.11	2.44	3.12	3.16	3.20	3.24	5.19	5.73	7.14	9.01	8.27	6.74	62.35
237C	STONE CANYON RESERVOIR	L-24S	6.16	3.75	4.80	5.38	4.80	4.42	5.16	6.20	6.09	8.36	8.36	6.92	70.40
261B	ACTON - ESCONDIDO CANYON	L-24S	7.90	4.33*	5.44	5.80	4.62	4.76	7.18	8.06	11.75	13.15	11.06**	9.46	93.51**
293	VAN NORMAN LAKE - LOWER DAM	L-24S	7.32	5.06	7.15	7.94	7.14	6.43	6.74	6.75	7.44	8.34	8.92	7.72	86.95
321	PINE CANYON PATROL STATION	L-24S	6.95	3.08	3.02	2.98	3.50	4.30	6.85	7.35	10.82	12.85	9.92	7.88	79.50
334B	COGSWELL DAM	L-24S	5.80	2.94	2.60	3.06	3.14	3.78	5.39	6.02	9.50	10.92	10.56	8.32	72.03
334B	COGSWELL DAM	F-36	N.I.	INC.	2.84	3.19	3.60	4.62	6.74	7.17	10.77	12.00	11.82	8.91	INC.
336	SILVER LAKE RESERVOIR	L-24S	5.08	2.52	2.70	2.62	3.49	4.48	5.19	6.30	6.29	7.77	7.50	5.82	59.76
336	SILVER LAKE RESERVOIR	L-A48	5.81	2.92	3.44	3.41	4.53	5.55	6.45	7.46	7.76	9.17	8.56	6.30	71.36
347	BALDWIN PARK EXPERIMENTAL STATION	L-72	3.12**	0.96**	1.21*	1.38*	1.85*	2.77*	4.37	5.46	6.11	7.50	6.86	4.83	46.42**
347	BALDWIN PARK EXPERIMENTAL STATION	L-24S	3.94	1.58	1.52	1.65	1.95	2.82	4.68	5.66	6.35	7.88	7.17	4.56	49.76
347	BALDWIN PARK EXPERIMENTAL STATION	L-24	4.66	1.87	1.84	1.82	2.38	3.42	5.54	6.74	7.52	9.08	8.44	6.08	59.39
390B	MORRIS DAM	L-72	5.21	2.44	2.90	2.84	2.95	3.52	5.39	5.98	7.54	8.86	8.38	6.86	62.87
407	NEWHALL R.S. U.S.F.S.	L-24S	5.42	3.19*	3.02	4.25*	4.22*	4.68	6.50*	6.82	10.26	9.98	9.70	6.62	74.66**
425B	SAN GABRIEL	L-24S	6.70	3.76	4.19	4.64	3.86	4.52	6.18	6.26	7.66	9.20	9.08	8.30	74.35
425B	SAN GABRIEL	F-36	6.66	3.72	3.95	4.01	3.84	4.60	6.50	7.00	9.12	10.64	N.R.	N.R.	INC.
425B	SAN GABRIEL	L-24	6.26	3.50	3.96	4.36	3.56	4.08	5.79	5.98	7.30	8.84	8.82	7.73**	70.18**
441C	PALMDALE - COUNTY ROAD MAINTENANCE YARD	L-24S	9.32	3.66	1.56	2.13	4.02	5.95	9.58	11.75	16.45	17.48	14.16	11.05	107.11
542	FAIRMONT	L-36	8.61	3.72	3.18	3.15	4.22	6.31	9.32	11.01	16.71	19.04	14.81	11.14	111.22
794	LOWER FRANKLIN RESERVOIR	L-24S	6.52	4.00	4.10	4.60	4.64	5.44	6.24	7.04	6.78	8.56	8.34	6.86	73.12
802B	EAGLE ROCK RESERVOIR	L-A48	5.83	3.56	3.93	4.34	4.31	4.90	5.86	6.12	7.03	8.37	7.99	6.56	68.80
1008	LA FRESA - S.C.E. CO.	L-24S	3.65	2.01**	1.90*	1.88**	2.30	2.44	3.57	4.18	4.02	5.78	5.48	4.18	41.39**
1014D	RIO HONDO SPREADING GROUNDS	L-24S	3.50	1.88	1.76	2.18**	2.30	3.24	4.08	4.90	5.22	6.25	5.83	4.45	45.59**
1037	ARCADIA - ARBORETUM	L-24S	4.55	2.00	2.77	2.63	2.74	3.20	4.64	5.18	5.70	7.54	7.87	5.90	54.72
1071B	DESCANSO GARDENS	L-24S	5.40	5.00**	3.78	3.91**	3.56	3.78	4.42	5.34	6.10**	7.48*	7.46	6.28	62.51**
1087	GREEN VERDUGO PUMP PLANT	L-A48	8.40	5.41	7.52	8.30	6.55	6.84	8.43	7.67	9.68	11.12	10.61	9.64	100.17

LEGEND

L-24 LAND PAN 24" IN DIAMETER
L-24S LAND PAN 24" IN DIAMETER, SCREENED - F.C. TYPE
L-36 LAND PAN 36" SQUARE - U.S.G.S. TYPE
L-A48 LAND PAN 48" IN DIAMETER - U.S.W.B. TYPE A
L-72 LAND PAN 72" IN DIAMETER
F-36 FLOATING PAN 36" SQUARE - U.S.G.S. TYPE
F-30 FLOATING PAN 30" SQUARE

* ESTIMATE > 10% OF TOTAL
** ESTIMATE < 10% OF TOTAL
# RECORDS INCOMPLETE - PAN WATER FROZEN
INC. INCOMPLETE RECORD
N.R. NO RECORD
N.I. NOT INSTALLED

TABLE XI

AVERAGE EQUIVALENT LAKE EVAPORATION

30 YEARS

(1929-1959)

STA. NO.	STATION	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	SEAS. TOTAL
23	CHATSWORTH RESERVOIR	4.69	4.11	3.07	2.57	2.44	3.45	3.92	5.06	5.82	7.55	7.22	6.06	55.96
32	NEWHALL	4.72	3.53	2.71	2.17	2.10	3.19	3.97	4.95	5.90	7.57	7.52	6.29	54.64
33	PACOIMA DAM	5.70	5.33	4.09	3.34	3.09	3.99	4.12	4.60	5.12	7.02	6.87	6.72	60.00
46	BIG TUJUNGA DAM	6.47	4.71	3.30	2.81	2.76	3.88	4.70	5.95	7.46	9.96	9.89	8.74	70.64
57	OPID'S (CAMP HI-HILL)	2.73	1.42	.67	.38	.36	1.11	2.49	4.01	5.30	6.82	6.58	4.79	36.66
63	BIG SANTA ANITA DAM	4.15	3.80	3.01	2.57	2.33	2.93	2.98	3.36	3.82	5.27	5.19	4.76	44.15
89	SAN DIMAS DAM	4.39	3.21	1.91	1.57	1.48	2.27	2.62	3.55	4.69	6.69	6.69	5.80	44.87
96	PUDDINGSTONE DAM	4.56	3.62	2.77	2.24	2.09	2.74	3.13	4.17	5.01	6.74	6.57	5.53	49.17
223	BIG DALTON DAM	4.42	3.15	2.06	1.84	1.91	2.57	3.05	3.98	5.04	7.23	7.01	5.88	48.14
261	ACTON - ESCONDIDO CANYON	6.21	4.74	3.42	2.71	2.76	3.96	4.98	6.79	8.57	10.97	10.55	8.43	74.09
265	PUENTE HILLS	3.21	2.38	1.64	1.29	1.30	2.21	2.81	3.61	4.25	5.53	5.33	4.41	37.96
292	ENCINO RESERVOIR	5.36	4.06	2.70	2.33	2.48	3.82	4.87	6.09	6.68	8.61	8.32	7.18	62.50
293	VAN NORMAN LAKE - LOWER DAM	7.07	6.45	4.76	4.09	3.70	5.19	5.88	7.39	8.36	10.87	10.43	8.91	83.10
321	PINE CANYON PATROL STATION	5.57	3.90	2.70	2.18	2.46	3.89	5.06	6.72	8.45	10.39	9.83	7.93	69.09
334	COGSWELL DAM	5.32	3.51	2.16	1.86	2.10	3.13	4.11	5.47	6.94	9.19	8.93	7.52	60.23
347	BALDWIN PARK EXP. STATION	3.89	2.59	1.70	1.36	1.73	2.74	3.55	4.78	5.62	7.23	6.83	5.51	47.53
425	SAN GABRIEL DAM	4.69	3.39	2.27	1.88	2.01	2.96	3.67	4.82	5.71	7.60	7.37	6.39	52.77
441	PALMDALE ROAD MAINT. YARD	6.08	3.83	2.57	2.18	2.60	4.34	6.02	8.50	10.29	12.62	12.08	9.43	80.56
468	PICKENS DEBRIS BASIN	3.74	2.85	1.92	1.59	1.64	2.43	2.96	3.73	4.58	6.06	5.87	5.13	42.51
794	LOWER FRANKLIN RESERVOIR	5.49	3.42	2.39	2.00	2.32	4.28	5.50	7.10	7.49	9.10	8.74	7.20	65.04
802	EAGLE ROCK RESERVOIR	5.51	4.84	3.67	3.14	2.82	3.89	4.25	4.95	5.72	7.65	7.48	6.64	60.57
1008	LA FRESA- S.C.E. CO.	3.53	2.15	1.46	1.24	1.49	2.80	3.66	4.77	5.01	5.99	5.66	4.65	42.41
1014	RIO HONDO SPREADING GROUNDS	3.74	2.34	1.61	1.30	1.50	2.86	3.73	4.95	5.22	6.38	6.11	5.03	44.77
1037	ARCADIA - ARBORETUM	4.30	3.71	2.81	2.37	2.10	2.95	3.26	3.83	4.45	6.03	5.93	5.23	46.97
1071	DESCANSO GARDENS	3.94	2.87	2.01	1.75	1.71	2.43	2.94	3.77	4.64	6.24	6.11	5.35	43.76
1087	GREEN VERDUGO PUMP PLANT	7.61	7.11	5.46	4.48	4.22	5.41	5.61	6.19	7.04	9.57	9.31	9.05	81.07

RUNOFF RECORDS

RUNOFF

FOREWORD

This is the twenty-third annual or biennial report on runoff published since the inception of the Hydraulic Division (formerly the 'Hydrographic Department') in April, 1927 1/. These reports cover 34 years of records on various streams and channels throughout the District.

VALUE OF RECORDS

Runoff records furnish the basic data necessary for:

1. Flood data.
2. Design and operation of dams, debris basins and spreading grounds.
3. Determination of the available water supply and conservation thereof by ground water replenishment.
4. Determination of the quantity of industrial and natural waste.

SUMMARY

Runoff measured at the District's gaging stations during the two seasons of this report was far below average, a direct reflection of the deficient rainfall. Peak flows were of a minor nature in the valley areas despite the continuing increase, through urbanization, of relatively impervious surface. In the mountains, peak flows were negligible. Many streams were practically dry throughout the two years.

Most of the water wasted to the ocean is measured at seven District stations. These measure, in addition to storm flow, the industrial wastes which are not affected by rainfall.

The following tabulation shows the yield from the relatively impervious industrialized and subdivided valley areas as compared to the mountainous areas:

	Build up Valley Area % of Average		San Gabriel Mountains % of Average	
Season	Runoff 2/	Precip.	Runoff 3/	Precip.
1959-60	69	64	15	48
1960-61	49	38	12	38

1/ Records prior to 1927 on some streams are available in either the office of the U.S.G.S. Water Resources Division, or in the office of the California State Department of Water Resources. Reference to these records, if available, can be found under "Station Descriptions" herein published.

2/ Based on period of record of Alhambra Wash and Ballona Creek drainage areas.

3/ Based on period of record of San Gabriel River and Arroyo Seco drainage areas.

EXTENT AND METHOD OF COLLECTING AND PRESENTING DATA

I. Distribution of Water-Stage Recording Stations by Watersheds

The Flood Control District operated 104 water-stage recording stations during the 1959-60 and 1960-61 seasons, of which 92 were stream-flow stations which are published. The remaining twelve are hydraulic study and spreading ground stations only, and the records are not published. These stations were distributed throughout the County as follows:

Drainage Area	No. of Stations
Los Angeles River	28
San Gabriel River	30
Rio Hondo	24
Ballona Creek	4
Santa Monica Mountains - Coastal	3
Santa Clara River	5
San Antonio Creek	8
Antelope Valley	2
Total	104

The locations of all stations are shown on Map IV, Page 53.

II. Types of Controls

The types of controls at which the gaging stations are located are listed below in order of predominance:

(1) Concrete-lined or riprap channels with no definite control point

(2) Artificial controls - concrete, placed rock, flumes and weirs

(3) Natural sections - shifting sand and gravel, clay or permanent rock

III. Types of Recorders Used

The flow stage is recorded by various types of automatic recorders, usually mounted over a concrete or corrugated iron pipe stilling well. The types of recording instruments used at stations are determined by the importance of the particular record, gage height range, time scale required, and the practicability of frequent access by a District hydrographer. Recorders used include the following makes: Au, H.C.F. 1/, Friez, Stevens A35, Stevens L, Stevens F and Rational.

IV. Records of Recording Stream Flow Stations

These records are, in general, published under each station heading in three sections, giving the following information:

(1) Station descriptions which present pertinent data regarding location, drainage areas, channels, controls, regulations, diversions, available records, extremes of discharge, accuracy of records and operations.

1/ The H.C.F. Recorder was designed and developed in the District's Hydraulic Division Instrument Section.

(2) Mean daily runoff tabulations which show the mean daily runoff in second-feet; total monthly and yearly runoff in second-foot days and acre-feet.

(3) Hydrographs showing a curve of instantaneous rate of flow versus time for the larger storms of the period. In general, the storm producing the peak flow of the season at the station was selected and a hydrograph prepared. In addition, the storm producing the peak flow at the maximum number of stations on a major river system was selected and additional hydrographs prepared for this storm for stations not included above.

Note: Hydrologic Reports previously published contained for each stream flow recorder station a printed list of the discharge measurements made at each location during the period of the Report. Such measurements have been deleted from this Report for the reason that they represent an instantaneous value of flow and have no appreciable value to the users of the records. During the 1959-60 season, 2799 measurements were made by District personnel at recording stations operated by the District and in 1960-61, 2756 such measurements were made. These measurements are available to anyone who has a need for them upon request.

V. Records Provided by Other Agencies:

Included in this report, as additional information, are the records of the twenty-one permanent stream-flow recording stations owned and operated by the following agencies:

Owned by	Stations
U.S. Geological Survey, Water Resources Division	11
U.S. Corps of Engineers	5
Ventura County	1
San Gabriel River Water Committee	1
Metropolitan Water District	2
San Bernardino County Flood Control District	1

The Flood Control District cooperates with these agencies by taking streamflow measurements to assist in developing station rating data. During the seasons covered by this report, 560 such measurements were taken. The U.S.G.S. in turn, publishes the records of 22 District stations in their Water Supply Papers for Pacific Slope Basins in California.

VI. Staff Gage Station Measurements

Records of 885 measurements taken at various staff stations are also included herein. The measurements are correlated with the water-stage at an established metering section. Included in this type of record are the measurements of "Rising Water at Whittier Narrows" which are taken weekly when conditions permit, at established staff gage stations. A graph of "Rising Water" showing mean monthly flow fluctuations for a period of 39 years, is included on page 251.

VII. Miscellaneous Station Measurements

In various drainage areas throughout the County, 2046 miscellaneous measurements were taken. These data were collected for specific purposes at irregular intervals and are insufficient to determine mean daily flow. They are listed and published by drainage areas.

VIII. Percolation Data

Numerous sets of percolation measurements were taken on selected reaches of seven streams. These are tabulated by streams.

IX. Limitations

Occasionally, incomplete recorder records occur at certain stations. Flows for periods of complete record were estimated by various methods. In general, estimates are made by comparison with other flow records and rainfall data, or by interpolation between known or measured values.

In the tabulations of mean daily runoff, incomplete totals were avoided by estimating any missing or unreliable records. It is believed that estimating missing current records is more satisfactory than leaving records incomplete. Familiarity with a current season's runoff characteristics facilitates making such estimates, while leaving the record incomplete may make it necessary to provide the estimate in later years, when the reconstruction of the available data would be much more difficult.

RESPONSIBILITY

The collection of field data was the responsibility of the following District Hydrographers, Grade II:

1	E.K. DeVore
2	R.J. Sarasua
2A	R.A. Waddicor and J.P. Roy
3	J. Holleron and R.V. Wood
4	E.S. Bonadiman
5	M.L. Sjostedt
6	R.V. Wood and D.W. Bowman
7 & 8	J.R. Hyde
9 & 10	Horace R. Whisler

The above District Hydrographers were assisted by the following Hydrographers Grade I and Hydrographer Aids:

D.E. Boucher
D.W. Bowman
R.L. Brook
W.L. Cook
A.J. Falcone
R.L. Frazelle
B.J. McBride
J.R. Penton
R.A. Petersen
J.P. Roy
G.L. Walter

During storm periods the hydrographers were assisted by the following men:

J.A. Campa [1/]
B.S. Caraba [2/]
R.R. Gilmore [1/]
K.W. Haughenberry [3/]
H.G. Hammond [1/]
B.G. Hubbard [1/]
C.L. Keim [3/]
W.O. Mattis [1/]
V.I. Medina [1/]
E.R. Penrose [3/]
J.D.H. Pitts [1/]
E.R. Provencio [1/]
M.E. Stringer [1/]

[1/] Operation and Maintenance Division Personnel
[2/] Water Conservation Division Personnel
[3/] Hydraulic Division Personnel

The field work and compilation of records was under the immediate supervision of R.E. Lindsay, Section Head, Runoff and Dam Records Section assisted by S.E. Blakely and F.E. Stunden. Preparation of the report for 1959-60 and 1960-61 was under immediate supervision of R.E. Lindsay assisted by S.E. Blakely.

All field work and office work was under the direction of M.F. Burke, Assistant Chief, Hydraulic Division.

LEGEND

Stations are designated by numbers to which prefixes and suffixes are added to indicate ownership, operating agency and type of station. The letters used have the following connotations:

Prefix F - indicates the stations owned and operated by the Los Angeles County Flood Control District.

Prefix B - indicates a station owned by the San Bernardino County Flood Control District and operated by the Los Angeles County Flood Control District.

Prefix E - indicates stations owned and operated by the Corps of Engineers, Department of the Army.

Prefix U - indicates stations owned and operated by the United States Geological Survey, Water Resources Branch.

Prefix P - indicates stations owned and operated by the District, formerly operated by the Pasadena Water Department.

Prefix L - indicates station owned and operated by the District, formerly operated in cooperation with the Little Rock - Palmdale Irrigation District.

Prefix M - indicates station owned and operated by the Metropolitan Water District.

Prefix S - indicates station owned and operated by the San Gabriel River Water Committee.

Prefix V - indicates station owned and operated by the Ventura County Water Resources Division.

Suffix R - indicates a recorder station.

Suffix S - indicates a staff gage station.

Suffix B or C - indicates that the station has been moved. B represents second location, C a third location, etc.

In working up the chart gage height record, the following legend is used for indicating estimates:

"a" - No gage height record due to recorder or clock failure.

"b" - No gage height record due to obstructed communication or sanded well.

"c" - Gage height record affected by backwater.

"d" - Gage height record doubtful.

"f" - Gage height record partly estimated. (Estimated part represents less than 75 per cent of the flow; otherwise, a, b, c, or d, is used.)

"v" - Gage height-discharge relation failed due to extreme and undetermined shift or unusual draw-down in stilling well.

These letters are placed in the discharge column; letters are not used if the estimated portion of the record represents less than 10 per cent of the mean daily flow or if the total flow is estimated at .05 cfs or less.

Zero gage height elevations shown in the station descriptions are based on U.S.G.S. mean sea level datum.

ACCURACY

The legend used in plotting the hydrographs has the following significance:

The solid line indicates the portion of the hydrograph lying below the maximum meter measurement taken during the period of the storm, unless the control was stable and the stage discharge relation was well defined by other higher measurements.

The dash line indicates computed flow based on water-stage records and the stage discharge relation determined by float measurements or extrapolation.

The dotted line indicates estimated flow for periods when the water stage record was considered unreliable due to recorder failure or when the stage discharge relation failed due to extreme or undetermined shift.

The mean daily runoff tabulations are qualified under ''Accuracy'' in the Station Description. ''Excellent'' indicates that error in the record is probably less than 5%. ''Good'' indicates a possible error greater than 5% but probably less than 10% ''Fair'' indicates a possible error greater than 10% but probably less than 20%. ''Poor'' indicates a possible error greater than 20%.

LEGEND

- ● RECORDING STATION
- O STAFF GAGE STATION
- U U.S.G.S. STATION
- L FORMERLY LITTLE ROCK PALMDALE IRRIGATION DISTRICT STATION
- P FORMERLY PASADENA WATER DEPARTMENT STATION
- S SAN GABRIEL RIVER WATER COMMITTEE STATION
- E CORPS OF ENGINEERS STATION
- B SAN BERNARDINO COUNTY STATION
- C D.W.R. STATION
- V VENTURA COUNTY STATION
- ~ STREAM GAGING DISTRICT BOUNDARY
- M METROPOLITAN WATER DISTRICT STATION

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT

STREAM GAGING STATIONS AND HYDROGRAPHIC DISTRICTS

APPROVED BY _____ CHIEF ENGINEER

SUBMITTED BY _____ CHIEF - HYDRAULIC DIVISION

RECOMMENDED BY _____ ASSISTANT CHIEF ENGINEER

DATE

REVISED 8-22-01

MAP IV

STATION F81D-R
ALHAMBRA WASH near Klingerman Street

LOCATION: WATER-STAGE RECORDER, LAT. 34°03'22", LONG. 118°05'11", ON THE LEFT (EAST) SIDE OF CHANNEL ABOUT 250 FEET ABOVE KLINGERMAN STREET AND 2650 FEET BELOW GARVEY AVENUE, ELEVATION OF ZERO GAGE HEIGHT 243.74 FEET.

ABANDONED STATION F81-R, F81B-R AND F81C-R WERE 2650 FEET, 4050 FEET, AND 1750 FEET, RESPECTIVELY, UPSTREAM FROM STATION F81D-R.

DRAINAGE AREA: 14.5 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - CONCRETE 40 FEET WIDE BY 12.7 FEET DEEP TO BOTTOM OF INVERT WITH 0.5 FOOT FILLETS AT VERTICAL SIDE WALLS. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING: HIGH FLOWS MEASURED FROM FOOTBRIDGE AT STATION.

RECORDER: A STEVENS A35 RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE:
AT STATION F81-R: JANUARY 14, 1930 TO SEPTEMBER 30, 1934.
AT STATION F81B-R: OCTOBER 1, 1934 TO FEBRUARY 25, 1935.
AT STATION F81C-R: FEBRUARY 25, 1935 TO APRIL 27, 1936.
AT STATION F81B-R: APRIL 27, 1936 TO MAY 22, 1936.
AT STATION F81D-R: SEPTEMBER 2, 1936 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 1710 SECOND-FEET, JANUARY 11.
MINIMUM 0.1 SECOND-FOOT, OCTOBER 25 AND DECEMBER 13.
1960-61
MAXIMUM 1480 SECOND-FEET, NOVEMBER 5.
MINIMUM 0.3 SECOND-FOOT AT VARIOUS TIMES.
1929-61 (STATIONS F81-R, F81B-R, F81C-R, F81D-R)
MAXIMUM 5010 SECOND-FEET, MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD, FLOWS OCCASIONALLY ESTIMATED DURING LOW FLOWS.

OPERATION: LOCATED, OPERATED AND RECORDER HOUSE CONSTRUCTED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT: THE STILLING WELL AND COMMUNICATION CHANNEL WERE CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE army.

76D74M C3b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F81D-R

Daily discharge, in second-feet of ALHAMBRA WASH near Klingerman Street, for the year ending September 30, 19 60.

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	2.8	0.4	b 0.7	109	16.0	0.6	0.9	0.4	0.4	0.6	0.6
2	0.2	1.1	0.4	0.7	1.7	0.6	0.6	0.4	0.4	0.4	0.9	0.6
3	0.6	0.9	0.4	0.6	0.6	0.4	0.4	0.3	0.6	0.4	0.9	0.4
4	0.6	0.6	0.6	0.6	0.4	0.4	0.6	0.4	0.4	0.6	0.9	0.6
5	1.1	1.4	0.6	0.5	0.4	0.4	1.1	0.4	0.6	0.9	0.9	0.3
6	1.4	1.1	0.3	0.5	0.4	0.4	1.4	0.6	0.4	0.6	0.9	0.3
7	1.4	1.1	0.2	0.4	0.4	0.4	0.9	1.1	0.4	0.9	0.9	0.3
8	1.6	0.6	2.7	b 0.4	45	0.4	0.4	0.6	0.4	0.9	e 0.9	0.3
9	1.6	0.9	1.6	2.3	0.3	0.4	0.9	0.9	0.4	0.9	e 0.9	0.2
10	2.3	0.9	0.9	161	153	0.4	0.4	0.9	0.4	0.9	e 0.9	0.2
11	2.1	1.4	0.4	100	0.6	0.4	0.4	0.9	0.4	0.6	0.9	0.4
12	1.6	0.9	0.3	66	0.6	0.4	0.3	0.4	0.6	0.6	0.9	0.4
13	1.4	1.1	0.1	b 0.5	0.9	0.4	0.4	0.4	0.6	0.4	1.1	1.1
14	1.1	1.6	0.2	37	0.9	0.4	0.4	b 0.4	0.9	0.6	0.9	0.9
15	1.1	0.4	0.4	45	0.6	0.4	0.6	0.4	0.9	0.9	0.9	0.6
16	1.4	0.3	1.1	b 0.6	0.4	0.6	0.6	0.4	0.9	0.6	0.9	0.9
17	1.1	0.6	1.1	b 0.6	0.4	0.6	0.4	0.4	0.6	0.6	0.9	0.9
18	0.6	0.6	0.9	1.3	0.4	0.6	0.6	b 0.4	0.4	0.6	0.9	0.6
19	0.9	0.3	1.1	b 0.6	0.4	0.6	0.9	0.4	0.4	0.6	0.9	0.9
20	0.4	0.9	5.7	b 0.6	0.4	0.6	0.9	0.4	0.6	0.9	0.9	0.6
21	0.3	0.3	29	0.6	0.4	0.6	0.6	0.4	0.6	0.4	0.9	0.6
22	0.3	0.3	2.1	0.6	0.4	0.6	0.4	0.4	0.4	0.3	0.9	0.9
23	0.3	0.3	0.9	0.6	0.6	0.6	0.6	0.6	0.4	0.3	0.6	0.6
24	0.3	0.4	161	b 0.6	0.6	0.6	0.3	0.6	0.4	0.6	0.6	0.4
25	0.1	0.4	11.0	27	0.6	0.6	0.3	0.6	0.4	0.9	0.4	0.6
26	0.3	0.6	b 1.0	1.3	0.9	0.4	17.4	0.4	0.3	0.6	0.6	0.6
27	1.4	0.6	1.0	b 0.7	0.4	3.2	200	0.6	0.4	0.6	0.4	0.4
28	0.2	0.9	0.9	b 0.7	27	193	3.5	0.4	0.3	0.6	0.4	0.4
29	0.6	0.6	0.9	b 0.7	47	0.4	0.9	0.4	0.3	0.6	1.4	0.4
30	0.4	0.6	0.8	0.6		0.4	0.9	0.4	0.4	0.4	0.6	0.6
31	0.4		b 0.8	0.6		0.4		0.4		0.4	0.4	
	273		228.8		257.0		237.7		14.6		25.1	
		24.5		453.9		51.9		16.2		19.0		16.6
MEAN	0.88	0.82	7.38	14.6	8.86	1.67	7.92	0.52	0.49	0.61	0.81	0.55
ACRE-FEET	54.	49.	454.	900.	510.	103.	471.	32.	29.	38.	50.	33.

Remarks:

YEAR OR PERIOD MEAN 3.75
ACRE-FEET 2720.

76D74M Gfb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

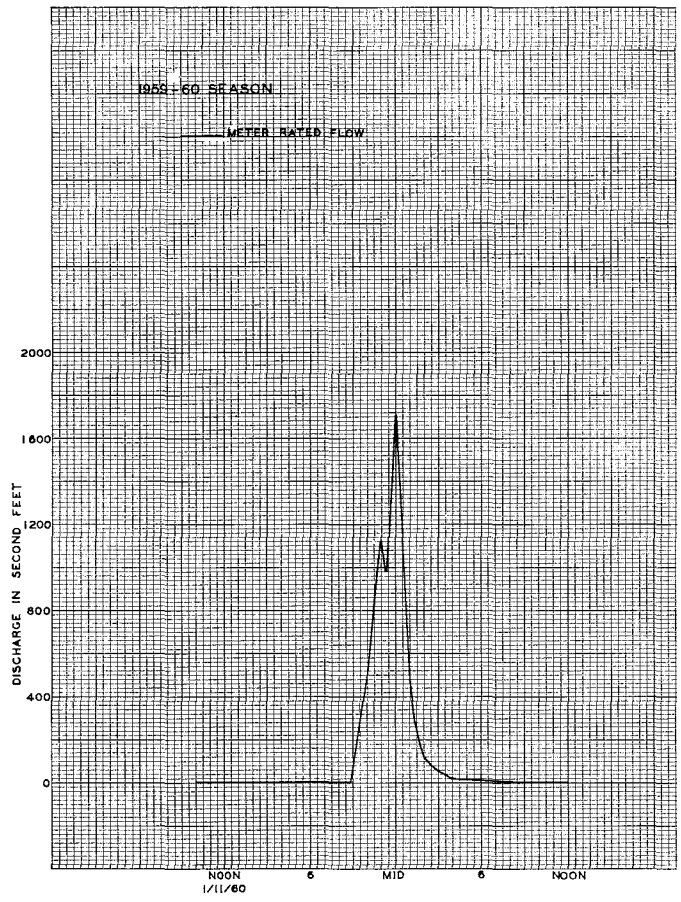
Sta. No. F81D-R

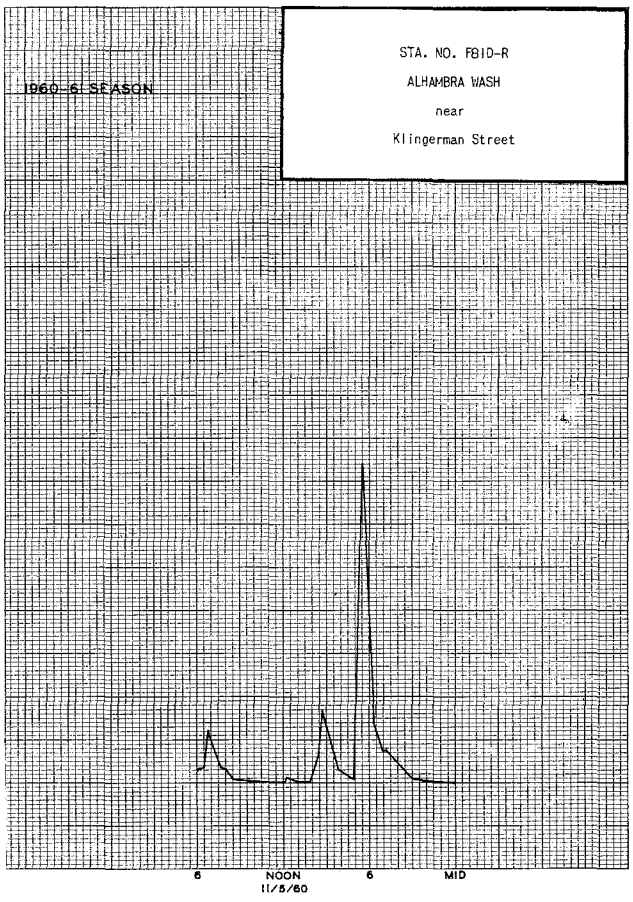
Daily discharge, in second-feet of ALHAMBRA WASH near Klingerman Street, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.6	3.4	0.4	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9
2	0.6	0.6	10.3	0.4	0.6	0.6	0.9	0.9	0.9	0.6	0.6	0.6
3	0.4	6.1	0.9	0.6	0.9	0.6	0.9	0.9	0.9	0.6	0.6	0.6
4	0.4	1.1	0.6	0.6	0.6	0.6	1.4	0.6	0.6	0.6	0.6	0.6
5	0.4	9.3	0.6	0.9	0.6	0.6	1.6	0.9	0.6	0.9	0.6	0.6
6	0.4	4.7	0.6	0.9	0.4	0.9	3.8	1.1	0.6	0.9	0.4	0.4
7	0.6	1.1	0.6	0.6	0.4	0.9	0.6	0.9	0.4	1.1	0.6	0.6
8	0.6	0.9	0.9	0.6	0.4	0.9	1.1	0.9	0.4	0.9	0.9	0.6
9	1.1	0.9	0.6	0.6	0.6	0.9	0.6	0.9	0.4	0.6	0.6	0.6
10	0.3	0.9	0.6	0.6	0.4	0.9	0.6	0.6	0.3	0.6	0.9	0.6
11	0.4	0.9	0.6	0.6	0.4	0.9	0.6	0.9	0.3	0.9	3.6	0.9
12	0.4	10.2	0.6	0.6	0.4	0.6	0.9	0.6	0.6	1.1	1.4	1.1
13	0.9	0.9	0.6	0.6	0.6	0.9	0.9	0.6	0.6	1.1	1.4	0.9
14	0.6	0.9	0.6	0.6	0.9	0.9	0.9	0.4	0.6	1.1	0.9	0.9
15	0.4	0.9	0.6	0.6	0.9	5.4	0.6	0.6	0.6	1.1	0.9	1.1
16	0.3	0.6	0.6	0.6	0.9	0.9	0.4	0.9	0.6	0.9	1.1	1.1
17	0.6	0.6	0.6	0.6	0.9	0.9	0.4	0.6	0.6	0.6	0.9	0.6
18	0.9	0.4	0.6	0.6	0.9	0.6	0.6	0.6	0.6	0.9	1.1	0.9
19	0.6	0.9	0.9	0.9	0.6	0.6	0.6	0.6	0.6	0.9	1.1	1.1
20	0.6	0.4	0.6	0.4	0.6	0.6	0.9	0.6	0.9	0.9	0.6	1.1
21	0.6	0.6	0.6	0.3	0.9	0.6	0.6	0.4	0.9	0.9	0.6	1.1
22	0.6	0.6	0.6	0.3	0.6	0.9	19.1	0.9	0.9	1.1	0.6	0.9
23	0.6	0.4	0.6	0.4	0.6	0.6	0.4	0.9	0.6	0.9	0.4	0.9
24	0.6	0.6	0.6	0.4	0.9	0.9	0.6	1.1	0.6	1.1	0.6	0.9
25	0.6	0.6	0.6	6.4	0.9	5.1	0.6	1.1	0.6	1.4	0.6	0.9
26	0.6	8.3	0.6	15.3	0.6	0.4	0.6	1.1	0.9	1.1	0.9	1.1
27	0.6	0.9	0.4	1.1	0.4	0.4	0.6	0.9	0.9	1.1	0.4	1.1
28	0.6	0.9	0.4	0.6	0.6	7.1	0.6	0.9	0.9	1.4	0.4	0.9
29	0.6	0.9	0.4	0.4		0.4	0.9	0.9	0.9	0.9	0.9	0.9
30	0.6	0.9	0.3	0.6		0.6	0.9	0.6	0.9	0.9	1.1	0.9
31	0.6		0.3	0.6		0.9		0.9		0.9	0.9	
	175		30.8		18.1		44.1		20.1		27.1	
		405.0		176.4		86.3		24.7		28.9		25.4
MEAN	0.56	13.5	.99	5.69	0.65	2.78	1.47	0.80	0.67	0.93	0.87	0.85
ACRE-FEET	35.	803.	61.	350.	36.	171.	87.	49.	40.	57.	54.	50.

Remarks:

YEAR OR PERIOD MEAN 2.48
ACRE-FEET 1790.





STATION M340-R
ALHAMBRA WASH - METROPOLITAN WATER DISTRICT OUTLET
near Rush Street

LOCATION: RECORDING VENTURI DISCHARGE METER, LAT. 34°03'06", LONG. 118°04'59" ON THE METROPOLITAN WATER DISTRICT MIDDLE FEEDER OUTLET TO ALHAMBRA WASH AND ON THE LEFT (EAST) SIDE OF THE CHANNEL ABOUT 300 FEET NORTH OF RUSH STREET.

RECORDS AVAILABLE: MARCH 28, 1958 TO SEPTEMBER 30, 1961. MONTHLY RECORDS ARE PUBLISHED HEREIN. AMOUNTS SHOWN ARE AS OF MIDNIGHT ON THE LAST DAY OF THE MONTH. APPROXIMATE MEAN DAILY FLOWS ARE AVAILABLE AT THE DISTRICT OFFICE.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE METROPOLITAN WATER DISTRICT IN COOPERATION WITH THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

MONTHLY DISCHARGE IN ACRE FEET:

	1959-60	1960-61
OCTOBER	4280.	14880.
NOVEMBER	3680.	13160.
DECEMBER	3260.	10490.
JANUARY	4750.	8060.
FEBRUARY	6700.	4290.
MARCH	443.	8830.
APRIL	653.	1500.
MAY	308	301.
JUNE	759.	733.
JULY	1020.	332.
AUGUST	4190.	3900.
SEPTEMBER	9480.	3690.
TOTAL	39,520.	70,170.

STATION F152B-R
ALISO WASH below Nordhoff Street

LOCATION: WATER-STAGE RECORDER, LAT. 34°14'07", LONG. 118°32'52", ON THE LEFT (EAST) BANK, 147 FEET BELOW THE HIGHWAY BRIDGE AT NORDHOFF STREET ABOUT ONE MILE NORTHWEST OF NORTHRIDGE AND 3600 FEET WEST OF RESEDA AVENUE. ELEVATION OF ZERO GAGE HEIGHT, 814.79 FEET. STATION MOVED TO PRESENT LOCATION DECEMBER 12, 1956. FORMERLY LOCATED 147 FEET UPSTREAM AT HIGHWAY BRIDGE.

DRAINAGE AREA: 7.61 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - CLAY AND SAND, 44-FOOT BOTTOM WIDTH WITH PIPE AND WIRE AT SIDES. A STABILIZER EIGHT FEET DOWNSTREAM ACTS AS A CONTROL.

DISCHARGE MEASUREMENTS: LOS FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF HIGHWAY BRIDGE.

RECORDER: AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION AND/OR DIVERSIONS: NONE.

RECORDS AVAILABLE: NOVEMBER 3, 1939 TO JULY 15, 1947 AND AUGUST 31, 1948 TO SEPTEMBER 30, 1961. NO RECORD FROM JULY 15, 1947 TO AUGUST 31, 1948 DUE TO BRIDGE AND CHANNEL CONSTRUCTION.

EXTREMES OF DISCHARGE:

1959-60
- MAXIMUM 281 SECOND-FEET FEBRUARY 1.
- MINIMUM NO FLOW MOST OF YEAR.

1960-61
- MAXIMUM 305 SECOND-FEET NOVEMBER 5.
- MINIMUM NO FLOW MOST OF YEAR.

1939-61
- MAXIMUM DISCHARGE NOT DETERMINED FEBRUARY 20, 1941.
- MAXIMUM 1750 SECOND-FEET JANUARY 22, 1943.
- MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F152B-R

Daily discharge, in second-feet of ALISO WASH below Nordhoff Street, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	35	0	0	0				RECORDER STOPPED FOR SUMMER
2	0	0	0	0	2.6	0	0	0				
3	0	0	0	0	0	0	0	0				
4	0	0	0	0	0	0	0	0				
5	0	0	0	0	0	0	0	0				
6	0	0	0	0	0	0	0	0				0
7	0	0	0	0	0	0	0	0				0
8	0	0	0	0	5.7	0	0	0				0
9	0	0	0	0	+	0	0	0				0
10	0	0	0	7.3	0	0	0	0				0
11	0	0	0	9.7	0	0	0	0				0
12	0	0	0	5.9	0	0	0	0				0
13	0	0	0	0	0	0	0	0				0
14	0	0	0	+	0	0	0	0				0
15	0	0	0	1.3	0	0	0	0				0
16	0	0	0	0	0	0	0	0				0
17	0	0	0	0	0	0	0					0
18	0	0	0	0	0	0	0					0
19	0	0	0	0	0	0	0					0
20	0	0	0	0	0	0	0					0
21	0	0	0	0	0	0	0					0
22	0	0	0	0	0	0	0					0
23	0	0	0	0	0	0	0					0
24	0	0	1.2	0	0	0	0					0
25	0	0	0.7	0	0	0	0					0
26	0	0	0	0	0	0	0					0
27	0	0	0	0	0	0	1.1					0
28	0	0	0	0	0	0.5	0.3					0
29	0	0	0	0	+	0	0					0
30	0	0	0	0		0	0					0
31	0		0	0		0						
	0		1.2	44.3		0.5	11.3		E O		E O	
		0		24.9				E O		E O		E O
MEAN	0	0	0.04	0.80	1.53	.016	0.38	E O	E O	E O	E O	E O
ACRE-FEET	0	0	2.4	49.	88.	1.0	22.	E O	E O	E O	E O	E O

RECORDER STOPPED FOR SUMMER (May)
RECORDER STOPPED FOR SUMMER (June, July, Aug.)

Remarks: + = 0.5 OR LESS

YEAR OR PERIOD MEAN 0.22
ACRE-FEET 162

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F152B-R

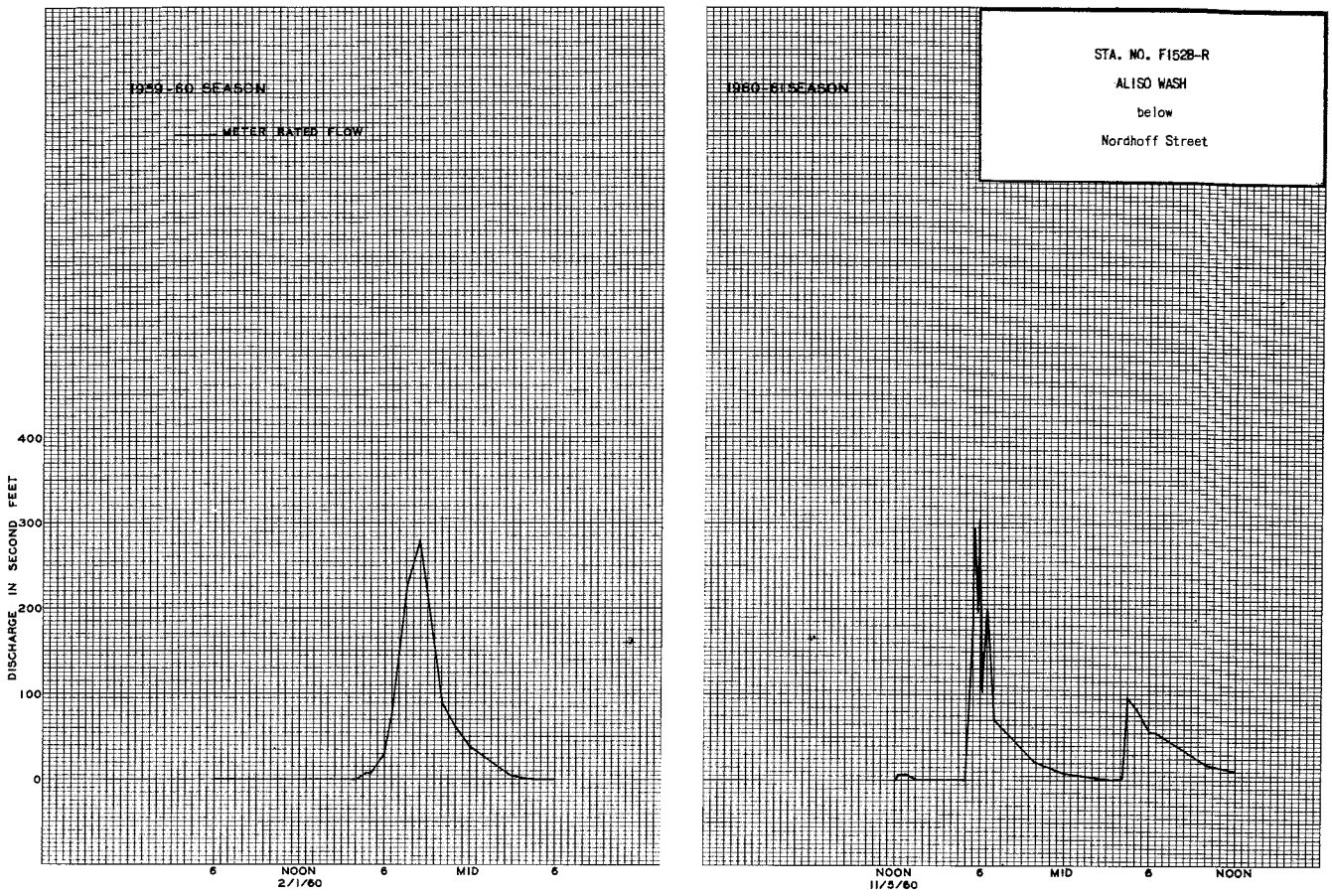
Daily discharge, in second-feet of ALISO WASH below Nordhoff Street, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	+	0	0	0				
2	0	0	0	0	0	0	0	0				
3	0	0.9	0	0	0	0	0	0				
4	0	0	0	0	0	0	0	0				
5	0	19.9	0	0	0	0	0	0				
6	0	14.4	0	0	0	0	0	0				
7	0	0	0	0	0	0	0	0				
8	0	0.5	0	0	0	0	0	0				
9	0	0	0	0	0	0	0	0				
10	0	0	0	0	0	0	0	0				
11	0	0	0	0	0	0	0	0				
12	0	2.9	0	0	0	0	0	0				
13	0	0	0	0	0	0	0	0				
14	0	0	0	0	0	0	0	0				
15	0	0	0	0	0	1.4	0	0				
16	0	0	0	0	0	0	0	0				
17	0	0	0	0	0	0	0					
18	0	0	0	0	0	0	0					
19	0	0	0	+	0	0	0					
20	0	0	0	0	0	0	0					
21	0	0	0	0	0	0	0					
22	0	0	0	0	0	0	0					
23	0	0	0	0	0	0	0					
24	0	0	0	0	0	0	0					
25	0	0	0	0	0	0	0					
26	0	3.6	0	2.1	0	0	0					
27	0	0	0	0	0	0	0					
28	0	0	0	0	0	0	0					
29	0	0	0	0		0	0					
30	0	0	0	0		0	0					
31	0		0	0		0						
	0		0	+		0		E O	E O		E O	
		42.2		21.0		1.4				E O		E O
MEAN	0	1.41	0	.68	+	.05	0	E O	E O	E O	E O	E O
ACRE-FEET	0	84.	0	42.	+	2.8	0	E O	E O	E O	E O	E O

RECORDER STOPPED FOR SUMMER (May)
RECORDER STOPPED FOR SUMMER (June, July, Aug., Sept.)

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.18
ACRE-FEET 129.



STATION F317-R
ARCADIA WASH below Grand Avenue

LOCATION: WATER STAGE RECORDER, LAT. 34°05'45", 118°02'14", ON THE RIGHT (WEST) WALL OF ARCADIA WASH CHANNEL ABOUT 75 FEET DOWNSTREAM FROM CENTER-LINE OF GRAND AVENUE. ELEVATION OF ZERO GAGE HEIGHT 298.17 FEET.

DRAINAGE AREA: 8.5 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL, RECTANGULAR CONCRETE, 32 FEET WIDE, 12 FEET DEEP WITH 0.5 FOOT RISE OF BOTTOM FROM RIGHT BANK TO LEFT BANK.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF GRAND AVENUE BRIDGE.

RECORDER: A STEVENS TYPE A35 CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: SEVERAL DEBRIS BASINS LOCATED UPSTREAM.

RECORDS AVAILABLE: DECEMBER 12, 1955 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 593 SECOND-FEET APRIL 27.
MINIMUM 0.1 SECOND-FOOT AT VARIOUS TIMES.
1960-61
MAXIMUM 570 SECOND-FEET NOVEMBER 5.
MINIMUM PLUS SECOND-FOOT AT VARIOUS TIMES.
1955-61
MAXIMUM 1930 SECOND-FEET FEBRUARY 19, 1958.
MINIMUM NO FLOW AT TIMES.

ACCURACY: GOOD.

OPERATION: CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F317-R

Daily discharge, in second-feet of ARCADIA WASH at Grand Avenue, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.5	0.4	0.5	4.5	9.3	0.5	0.3	0.5	0.7	0.4	0.4
2	0.4	0.5	0.5	0.5	1.6	0.4	0.5	0.4	0.4	0.4	0.4	0.4
3	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.7	0.5	0.4	0.3	0.3
4	0.4	0.5	0.7	0.5	0.5	0.4	0.3	0.7	0.5	0.4	0.4	0.3
5	0.4	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.5	0.7	0.5	0.3
6	0.5	0.4	0.5	0.3	0.5	0.4	0.5	0.4	0.5	0.7	0.5	0.3
7	0.5	0.4	0.7	0.3	0.5	0.4	0.5	0.5	0.5	0.7	0.5	0.4
8	0.5	0.4	1.3	0.3	2.6	0.4	0.5	0.4	0.5	0.7	0.5	0.5
9	0.5	0.4	0.7	3.0	0.7	0.4	0.5	0.5	0.5	0.5	0.4	0.4
10	0.4	0.4	0.7	4.8	4.4	0.4	0.4	0.5	0.5	0.5	0.4	0.5
11	0.4	0.4	0.7	2.5	0.5	0.4	0.5	0.5	0.4	0.5	0.7	0.4
12	0.5	0.5	0.5	19.1	0.5	0.4	0.7	0.5	0.4	0.7	0.5	0.4
13	0.5	0.7	0.5	0.4	0.7	0.4	0.7	0.5	0.4	0.5	0.4	0.4
14	0.5	0.5	0.4	11.1	0.4	0.4	0.7	0.5	0.5	0.5	0.4	0.5
15	0.7	0.5	0.4	12.2	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5
16	0.7	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.4
17	0.7	0.7	0.5	0.5	0.5	0.4	0.3	0.4	0.5	0.5	0.5	0.4
18	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.4	0.4	0.5	0.5	0.4
19	0.7	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.7	0.4
20	0.4	0.5	2.1	0.4	0.5	0.4	0.5	e 0.4	0.5	0.5	0.5	0.5
21	0.4	0.5	4.8	0.4	0.7	0.5	0.7	0.4	0.4	0.7	0.5	0.5
22	0.5	0.5	0.4	0.5	0.9	0.3	0.9	0.3	0.9	0.5	0.7	0.4
23	0.5	0.5	0.7	0.5	1.1	0.4	0.5	0.3	0.4	0.4	0.5	0.4
24	0.5	0.5	4.6	0.5	0.5	0.5	0.5	0.3	0.4	0.4	0.4	0.4
25	0.5	0.7	5.7	8.6	0.5	0.5	0.5	e 0.3	0.5	0.4	0.4	0.4
26	0.5	0.7	0.5	0.7	0.7	0.5	10.1	0.3	0.5	0.4	0.4	0.4
27	0.7	0.5	0.4	0.5	0.5	a 4.8	10.1	0.4	0.4	0.3	0.4	0.4
28	0.5	0.5	0.4	0.4	9.3	4.2	1.4	0.3	0.4	0.4	0.4	0.4
29	0.4	0.4	0.5	0.4	5.1	0.5	0.5	0.3	0.4	0.4	0.4	0.4
30	0.4	0.4	0.4	0.4		a 0.5	0.4	0.3	0.5	0.5	0.4	0.4
31	0.3		0.4	0.4		0.5		0.5		0.3	0.4	
	15.5		7.35		150.4		125.9		14.1		14.2	
		15.2		137.7		30.4		13.0		15.5		12.2
MEAN	0.50	0.51	2.37	4.44	5.19	0.98	4.20	0.42	0.45	0.50	0.46	0.41
ACRE-FEET	31.	30.	146.	273.	298.	60.	250.	26.	28.	31.	28.	24.

Remarks:

YEAR OR PERIOD MEAN 1.69
ACRE-FEET 1220.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

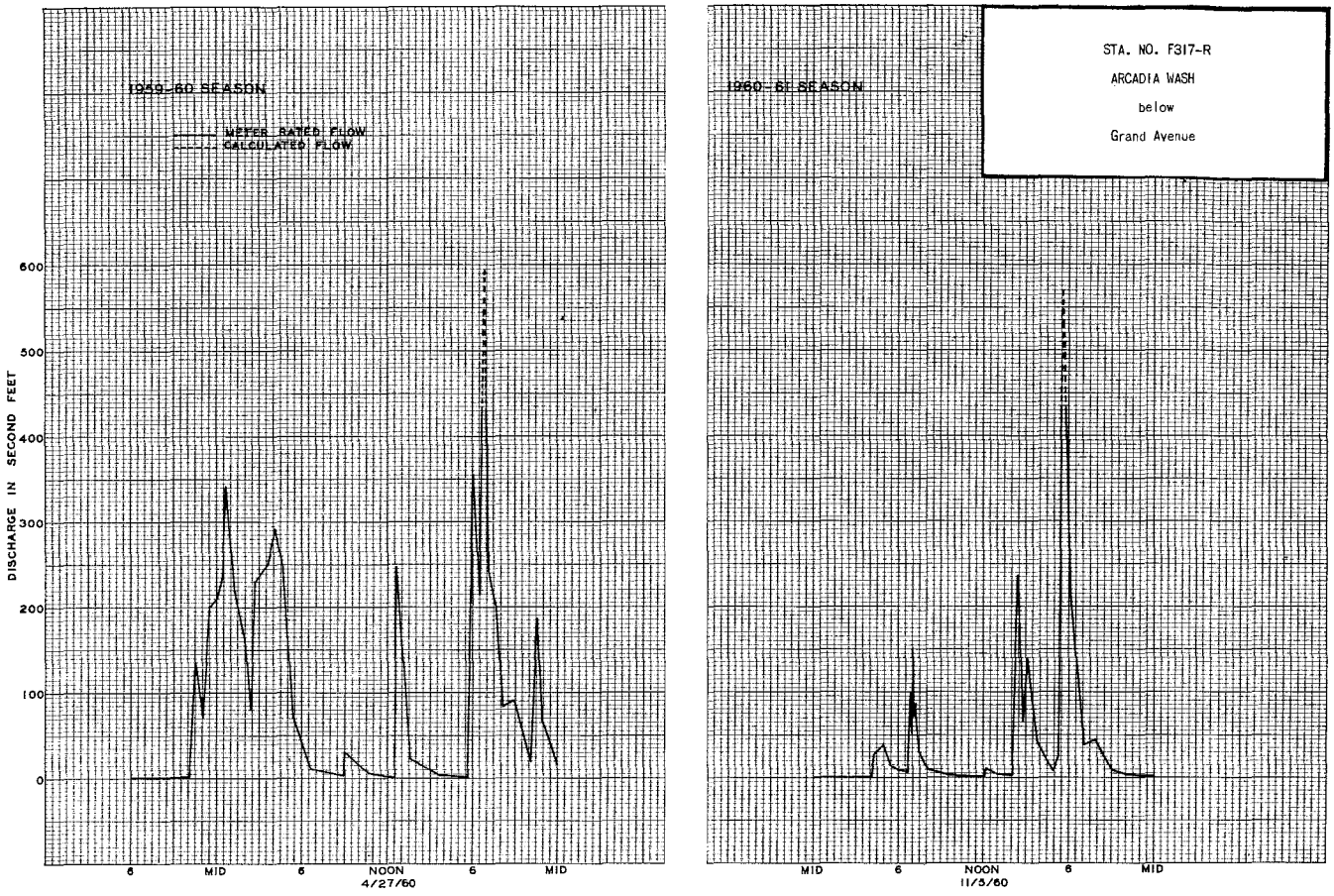
Sta. No. F317-R

Daily discharge, in second-feet of ARCADIA WASH at Grand Avenue, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.5	0.6	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4
2	0.4	0.4	4.7	0.4	0.4	0.5	0.4	0.3	0.3	0.4	0.3	0.4
3	0.4	3.3	0.4	0.5	0.4	0.5	0.4	0.4	0.3	0.4	0.4	0.3
4	0.4	0.4	0.3	0.4	0.4	1.6	0.4	0.4	0.3	0.3	0.5	0.3
5	0.4	3.6	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.3
6	0.5	2.3	0.3	0.5	0.4	0.4	2.2	0.4	0.4	0.4	0.4	0.3
7	0.7	0.7	0.3	0.4	0.3	0.4	0.4	0.3	0.4	0.4	0.5	0.5
8	0.5	0.7	0.4	0.4	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.4
9	1.7	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.4	0.5
10	1.4	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.4
11	0.7	0.5	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.4
12	0.5	52.0	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.4
13	0.4	0.7	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.3
14	0.4	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4
15	0.4	0.4	0.4	0.3	0.4	3.4	0.4	0.4	0.3	0.4	0.2	0.4
16	0.4	0.4	0.4	0.4	0.4	0.7	0.4	0.4	0.3	0.4	0.3	0.5
17	0.4	0.3	0.4	0.5	0.4	0.4	0.4	0.3	0.4	0.5	0.3	0.4
18	0.4	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.7
19	0.5	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.3	0.4	0.4	0.4
20	0.5	0.2	0.3	0.4	0.5	0.4	0.4	0.4	0.3	0.4	0.3	0.3
21	0.4	0.3	0.4	0.4	0.5	0.5	0.3	0.3	0.3	0.4	0.4	0.4
22	0.4	0.4	0.4	0.4	0.4	0.2	4.2	0.3	0.3	0.4	0.4	0.4
23	0.4	0.4	0.3	0.5	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.3
24	0.4	0.4	0.3	0.7	0.5	1.9	0.3	0.2	0.4	0.4	0.5	0.3
25	0.7	0.3	0.3	3.1	0.4	3.2	0.3	0.3	0.3	0.2	0.5	0.3
26	0.5	3.5	0.4	6.9	0.4	+	0.3	0.4	0.3	0.2	0.4	0.3
27	0.4	0.5	0.5	0.7	0.5	0.1	0.3	0.4	0.3	0.3	0.3	0.2
28	0.4	0.4	0.5	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.4	0.3
29	0.4	0.3	0.4	0.4		0.1	0.4	0.3	0.4	0.3	0.4	0.3
30	0.4	0.3	0.4	0.4		0.4	0.3	0.3	0.4	0.4	0.3	0.3
31	0.4		0.5	0.4		0.4		0.3		0.4	0.3	
	16.2		16.4		11.7		16.3		10.0		11.5	
		168.8		84.7		50.7		10.3		10.9		11.1
MEAN	0.52	5.63	0.53	2.73	0.42	1.64	0.54	0.33	0.33	0.35	0.37	0.37
ACRE-FEET	32.	335.	33.	168.	23.	101.	32.	20.	20.	22.	23.	22.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 1.15
ACRE-FEET 831.



STATION UI-R
ARROYO SECO above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR CONTROL, LAT. 34°13'20" LONG. 118°10'36", NEAR NORTH LINE OF SEC. 31, T.2N., R. 12W., ON RIGHT BANK 1.5 MILES UPSTREAM FROM MILLARD CANYON AND 5.5 MILES NORTHWEST OF PASADENA. ALTITUDE OF GAGE 1397.88 FEET.

DRAINAGE AREA: 16.4 SQUARE MILES.

RECORDS AVAILABLE: DECEMBER 1910 TO SEPTEMBER 1961.

AVERAGE DISCHARGE: 47 YEARS (1913-15, 1916-61) - 8.68 SECOND-FEET.

EXTREMES OF DISCHARGE
1959-60
MAXIMUM 170 SECOND-FEET JANUARY 12, (GAGE HEIGHT 2.88 FEET).
MINIMUM NO FLOW ON SOME DAYS.
1960-61
MAXIMUM 769 SECOND-FEET NOVEMBER 6, (GAGE HEIGHT 4.30 FEET).
MINIMUM NO FLOW ON SOME DAYS.
1910-61
MAXIMUM 8620 SECOND-FEET MARCH 2, 1938 BY SLOPE-AREA METHOD.
MINIMUM NO FLOW AT TIMES IN SOME YEARS.

REMARKS: RECORDS GOOD TO 5 CFS AND POOR ABOVE; NO DIVERSIONS ABOVE STATION. MINOR REGULATION AT DEBRIS DAM 1.5 MILES UPSTREAM.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY. THIRTY-NINE DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

7ED74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. UI-R

Daily discharge, in second-feet of ARROYO SECO above Mouth of Canyon, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.4	1.1	5.2	5.0	1.3	1.9	1.0	0.1	0	0
2	0.1	0.2	0.4	1.0	8.9	3.4	1.1	1.9	0.7	0.1	0	0
3	0	0.2	0.4	1.0	5.0	2.5	1.1	1.9	0.7	0.1	0	0
4	0	0.2	0.4	1.0	4.2	2.5	1.0	1.9	0.7	0.1	0	0
5	0	0.2	0.4	1.0	3.4	2.3	1.0	1.7	0.7	0.1	0.1	0
6	0.1	0.2	0.4	1.0	3.2	2.1	1.0	1.5	0.7	0.1	0.1	0
7	0.1	0.2	0.4	1.0	3.0	2.1	1.1	1.3	0.7	0.1	0.1	0
8	0.1	0.2	0.4	1.1	6.3	1.9	1.1	1.3	0.6	0.1	0.1	0
9	0.1	0.2	0.5	1.1	5.7	1.9	1.3	1.3	0.6	0.1	0.1	0
10	0.1	0.2	0.5	1.0	4.7	1.9	1.3	1.0	0.6	0.1	0	0
11	0.1	0.2	0.5	5.8	4.0	1.9	1.3	0.8	0.6	0.1	0	0
12	0.1	0.2	0.5	21	3.7	1.9	1.3	0.6	0.6	0.1	0	0
13	0.1	0.2	0.6	4.2	3.7	1.9	1.3	0.6	0.6	0.1	0	0
14	0.1	0.2	0.6	3.8	2.8	1.9	1.3	1.0	0.5	0	0	0
15	0.1	0.3	0.6	3.2	2.1	1.9	1.3	1.1	0.4	0	0	0
16	0.1	0.3	0.6	2.5	2.1	1.9	1.1	1.0	0.4	0	0	0.1
17	0.1	0.3	0.6	1.9	1.9	1.7	1.1	1.0	0.4	0	0	0
18	0.1	0.3	0.6	1.9	1.9	1.5	1.0	1.0	0.3	0	0	0
19	0.1	0.3	0.6	1.7	1.9	1.5	0.8	0.8	0.3	0	0	0
20	0.1	0.3	0.7	1.7	1.9	1.5	0.8	0.6	0.3	0	0	0
21	0.1	0.3	0.8	1.7	1.9	1.3	1.0	0.7	0.2	0	0	0
22	0.1	0.3	0.7	1.7	1.8	1.1	1.3	0.8	0.2	0	0.1	0
23	0.1	0.4	0.7	1.7	1.7	1.1	1.3	0.8	0.2	0	0.1	0
24	0.1	0.4	1.5	1.7	1.5	1.1	1.3	0.8	0.1	0	0.1	0
25	0.1	0.4	1.9	2.9	1.7	1.0	1.1	0.8	0.1	0	0.1	0
26	0.1	0.4	1.7	3.2	1.7	1.3	1.3	0.8	0.1	0	0.1	0
27	0.1	0.4	1.7	2.3	1.7	3.2	1.3	0.7	0.1	0	0.1	0
28	0.1	0.4	1.5	2.1	1.9	4.4	1.2	0.6	0.1	0	0.1	0
29	0.2	0.4	1.3	1.9	4.5	2.7	4.2	0.6	0.1	0	0.1	0.1
30	0.2	0.4	1.1	1.7		2.0	2.7	0.7	0.1	0	0.1	0.1
31	0.1		1.1	1.5		1.5		0.8		0	0.1	
	3.0	8.3	24.1	88.6	94.0	63.9	61.8	32.3	12.7	1.3	1.5	0.3
MEAN	0.10	0.28	0.78	2.86	3.24	2.06	2.06	1.04	0.42	0.04	0.05	0.01
ACRE-FEET	6.0	16.	48.	176.	186.	127.	123.	64.	25.	2.6	3.0	0.6

Remarks:

YEAR OR PERIOD MEAN 1.07
ACRE-FEET 777.

7ED74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. UI-R

Daily discharge, in second-feet of ARROYO SECO above Mouth of Canyon, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0	1.1	1.0	1.9	1.0	1.0	0.4	0.5	0.2	0.1	0.1
2	0.1	0.1	1.1	1.0	1.9	1.0	0.9	0.4	0.5	0.2	0.1	0.1
3	0.1	2.3	1.1	1.0	1.7	1.0	0.8	0.4	0.5	0.2	0.1	0.1
4	0	0.8	1.6	1.0	1.7	1.0	0.7	0.6	0.4	0.2	0.1	0.1
5	0	22	1.0	1.0	1.7	1.0	0.9	0.6	0.4	0.2	0.1	0.1
6	0	6.6	1.2	1.0	1.7	1.0	1.3	0.6	0.4	0.2	0.1	0.1
7	0	6.3	1.3	1.0	1.7	1.0	0.9	0.5	0.4	0.2	0.1	0.1
8	0.1	2.8	1.2	1.0	1.6	1.0	0.9	0.5	0.4	0.2	0.1	0.1
9	0.1	1.6	1.2	1.0	1.6	0.9	0.8	0.5	0.4	0.2	0.1	0.1
10	0.1	1.7	1.1	1.0	1.5	1.0	0.8	0.4	0.4	0.2	0.1	0.1
11	0.1	2.4	1.1	1.0	1.3	1.1	0.7	0.4	0.4	0.2	0.1	0.1
12	0.1	8.7	0.9	1.0	1.3	1.2	0.8	0.5	0.4	0.2	0.1	0.1
13	0.1	4.8	1.0	1.0	1.3	1.1	0.9	0.5	0.4	0.2	0.1	0.1
14	0.1	2.4	1.1	1.1	1.2	1.0	0.8	0.5	0.4	0.2	0.1	0.1
15	0.1	2.4	1.5	1.1	1.3	2.1	0.7	0.5	0.3	0.2	0.1	0.2
16	0.1	2.2	1.6	1.1	1.3	1.5	0.5	0.5	0.3	0.2	0.1	0.2
17	0.1	1.9	1.3	1.1	1.3	1.6	0.5	0.5	0.3	0.1	0.1	0.2
18	0.1	1.9	1.1	1.1	1.3	1.7	0.5	0.6	0.3	0.1	0.1	0.2
19	0.1	1.6	1.1	1.0	1.2	1.3	0.7	0.6	0.3	0.1	0.1	0.2
20	0.1	1.5	1.0	1.0	1.3	1.1	0.7	0.6	0.3	0.1	0.1	0.2
21	0.1	1.3	0.9	1.1	1.2	1.1	0.8	0.5	0.3	0.1	0.1	0.2
22	0.1	1.3	0.8	1.1	1.2	1.1	1.1	0.5	0.3	0.1	0.1	0.2
23	0.1	1.3	0.9	1.1	1.2	1.2	0.5	0.5	0.3	0.1	0.1	0.1
24	0.1	1.3	1.0	1.1	1.2	1.3	0.4	0.5	0.3	0.1	0.1	0.1
25	0.1	1.3	1.0	1.2	1.2	1.5	0.5	0.5	0.3	0.1	0.1	0.1
26	0.1	7.6	1.0	26	1.2	1.2	0.4	0.5	0.3	0.1	0.1	0.1
27	0.1	1.5	1.0	3.9	1.1	1.2	0.3	0.5	0.3	0.1	0.1	0.1
28	0.1	1.5	1.0	3.0	1.1	1.3	0.2	0.5	0.3	0.1	0.1	0.1
29	0.1	1.5	1.0	2.6		1.0	0.3	0.5	0.2	0.1	0.1	0.1
30	0.1	1.1	1.0	2.0		0.7	0.4	0.5	0.2	0.1	0.1	0.1
31	0.1		1.0	2.0		0.9		0.5		0.1	0.1	
	2.7	160.1	34.2	65.6	39.2	36.1	20.7	15.6	10.5	4.7	3.1	3.8
MEAN	0.09	5.34	1.10	2.12	1.40	1.16	0.69	0.50	0.35	0.15	0.10	0.13
ACRE-FEET	5.4	318.	68.	130.	78.	72.	41.	31.	21.	9.3	6.1	7.5

Remarks:

YEAR OR PERIOD MEAN 1.09
ACRE-FEET 787.

STATION P277-R
ARROYO SECO below Devil's Gate Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'53", LONG. 118°10'21", ON THE (EAST) SIDE OF THE CHANNEL ABOUT 0.5 MILE BELOW DEVIL'S GATE DAM AND ABOUT 0.5 MILE ABOVE WASHINGTON STREET, PASADENA. ELEVATION OF GAGE 939.89 FEET.

DRAINAGE AREA: 32.5 SQUARE MILES.

CHANNEL AND CONTROL: NATURAL CHANNEL OF ROCK AND SAND FROM DEVIL'S GATE DAM TO THE STATION AT INTAKE STRUCTURE TO IMPROVED CHANNEL WHERE AN OGEE SECTION 80.2 FEET WIDE AND 18 FEET HIGH WITH A RECTANGULAR BROAD-CRESTED WEIR 14.2 FEET WIDE AND 1.0 FOOT HIGH WITH LOW FLOW NOTCH 1.0 FOOT HIGH BY 3.0 FEET WIDE AT THE TOP AND 2.0 FEET WIDE AT BOTTOM, FORMS THE CONTROL. LOW WATER NOTCH INSTALLED OCTOBER 1, 1953.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOT BRIDGE BELOW STATION.

RECORDER: A STEVENS A-35 RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW REGULATED BY DEVIL'S GATE DAM AND PASADENA WATER DEPARTMENT'S GATED DIVERSION INTO CHANNEL ABOVE STATION.

DIVERSIONS: PASADENA WATER DEPARTMENT DIVERTS FLOW APPROXIMATELY TWO MILES ABOVE DEVIL'S GATE DAM FOR DOMESTIC USE. FLOW MAY BE DIVERTED TO CHANNEL BETWEEN DEVIL'S GATE DAM AND STATION FROM PASADENA WATER DEPARTMENT TUNNEL.

RECORDS AVAILABLE: NOVEMBER 30, 1942 TO SEPTEMBER 30, 1961. RECORDS PRIOR TO NOVEMBER 30, 1942 ARE AVAILABLE AT THE PASADENA WATER DEPARTMENT.

EXTREMES OF DISCHARGE:

1959-60
MAXIMUM 6.9 SECOND-FEET JANUARY 11.
MINIMUM NO FLOW PART OF YEAR.

1960-61
MAXIMUM 360 SECOND-FEET NOVEMBER 25.
MINIMUM PLUS FLOW AT VARIOUS TIMES.

1942-61
MAXIMUM 5540 SECOND-FEET JANUARY 23, 1943.
MINIMUM NO FLOW.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE PASADENA WATER DEPARTMENT, JANUARY 1940. THE OPERATION TAKEN OVER BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT NOVEMBER 30, 1942 IN COOPERATION WITH THE PASADENA WATER DEPARTMENT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. P277-R

Daily discharge, in second-feet of ARROYO SECO below Devils Gate Dam, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0.6	0.7	0.7	0.9	0.7	0.4	0.1	0.1
2	0	0	0	0	0.3	0.6	0.7	0.9	0.6	0.5	0.3	0.1
3	0	0	0	0	0.3	0.6	0.7	0.9	0.7	0.4	0.7	0.1
4	0	0	0	0	0.3	c 0.6	0.7	0.9	0.9	0.3	0.9	+
5	0	0	0	0	0.3	0.6	0.7	0.9	1.0	0.1	0.9	0.1
6	0	0	0	0	0.4	0.6	0.7	0.9	1.1	0.1	0.9	0.1
7	0	0	0	0	0.5	0.6	0.7	0.9	1.0	0.1	0.7	0.1
8	0	0	0	0	0.8	c 0.6	0.7	0.9	0.6	0.1	0.9	0.1
9	0	0	0	0	0.5	0.6	0.7	0.9	0.5	0.1	1.0	0.1
10	0	0	0	1.6	0.4	0.5	0.7	0.9	0.6	0.1	1.0	0.1
11	0	0	0	0.8	0.3	0.6	0.7	0.9	0.7	0.1	1.2	0.1
12	0	0	0	0.4	0.3	0.6	0.7	0.9	0.5	0.1	1.2	0.1
13	0	0	0	0.1	0.4	0.6	0.7	0.9	0.5	0.1	1.3	0.1
14	0	0	0	0.2	0.4	0.6	0.7	0.9	0.7	0.1	1.3	0.1
15	0	0	0	0.3	0.4	0.6	0.7	0.9	0.4	0.1	1.4	0.1
16	0	0	0	0.1	0.4	0.6	0.7	0.9	0.3	0.3	1.4	0.2
17	0	0	0	0.2	0.4	0.6	0.6	0.9	0.5	0.4	0.9	0.2
18	0	0	0	0.1	0.4	0.6	0.6	0.9	0.6	0.4	0.7	0.1
19	0	0	0	0.1	0.4	0.6	0.6	0.9	0.7	0.3	0.6	0.1
20	0	0	0	0.1	0.4	0.7	0.6	0.9	0.6	0.1	0.7	0.1
21	0	0	0	0.1	0.5	c 0.7	0.6	0.9	0.5	0.1	0.9	+
22	0	0	0	0.1	0.5	0.7	0.6	0.9	0.3	+	1.3	
23	0	0	0	0.1	0.5	0.7	0.6	0.9	0.5	+	0.6	
24	0	0	0	0.1	0.5	0.7	0.5	0.9	0.5	0.1	0.1	
25	0	0	0	0.2	0.5	0.7	0.5	0.7	0.6	0.1	+	
26	0	0	0	0.2	0.5	0.7	0.6	0.7	0.5	0.1	0.1	
27	0	0	0	0.2	0.6	0.9	1.1	0.7	0.4	+	0.1	
28	0	0	0	0.2	c 0.6	0.9	0.7	0.7	0.3	+	0.1	
29	0	0	0	0.2	0.7	0.7	0.7	0.7	0.2	+	0.1	
30	0	0	0	0.2		0.7	0.7	0.7	0.3	0.1	0.1	+
31	0		0	0.2		0.7		0.7		0.1	0.1	
	0		0		13.1		20.2		17.3		21.6	
		0		5.8		20.2		26.5		4.8		2.1
MEAN	0	0	0	0.19	0.45	0.65	0.67	0.85	0.58	0.15	0.70	0.07
ACRE-FEET	0	0	0	12.	26.	40.	40.	53.	34.	9.5	43.	4.2

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.36
ACRE-FEET 262.

76D74M Gb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. P277-R

Daily discharge, in second-feet of ARROYO SECO below Devil's Gate Dam, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0.4	0.4	1.1	0.9	0.5	+	b 0.2	+	0.1	+
2		+	0.5	0.4	1.1	0.9	0.5		0.1		0.1	
3		b 0.1	0.4	0.4	1.1	0.9	0.5		0.1		0.1	
4		0.1	0.4	0.4	1.1	0.7	0.4		0.1		0.1	
5		0.4	0.4	0.5	1.1	0.7	0.3		0.1		0.1	
6		0.7	0.4	0.5	1.1	0.7	0.6		0.1		+	
7		+	0.3	0.3	1.1	0.7	0.6		0.2			
8			0.3	0.3	1.1	0.6	0.5		0.3			
9			0.3	0.3	1.1	0.6	0.3		0.2			
10			0.4	0.3	1.1	0.6	0.3		0.2			
11		+	0.4	0.3	1.1	0.6	0.3		0.2			
12		0.1	0.5	0.3	1.1	c 0.6	0.2		0.2			
13		+	0.5	0.3	1.1	0.6	0.2		b 0.1			
14			0.5	0.3	1.1	0.5	0.1		+			+
15			0.5	0.4	1.1	0.6	0.1					0.1
16		+	0.4	0.4	1.1	0.5	0.1	+				0.1
17		0.1	0.4	0.4	1.1	0.5	0.1	0.1				+
18		0.1	0.3	0.5	1.0	0.5	0.1	0.2				
19		0.1	0.3	0.7	1.0	0.5	0.1	0.2				
20		0.1	0.3	0.7	0.9	0.4	0.1	0.2				
21		0.1	0.3	0.5	0.9	0.4	+	0.2			+	
22		0.2	0.3	0.3	0.7	0.4	+	0.2			0.1	
23		0.2	0.3	0.4	0.7	0.4	+	0.2			0.1	
24		0.2	0.3	0.4	0.6	0.4	0.1	5.8			0.1	
25		4.7	0.3	0.4	0.7	0.4	0.1	5.0			0.1	
26		b 1.7	0.4	1.1	0.7	c 0.4	0.1	b 0.1			0.1	
27		b 1.2	0.4	0.4	0.7	0.4	0.1	0.1			+	
28		b 0.4	0.4	7.0	0.9	0.4	0.1	0.1			+	
29		0.5	0.4	2.4		0.4	+	0.1			0.1	
30		0.5	0.4	1.2		0.4	+	0.1	+		+	+
31	+		0.4	1.1		0.4		b 0.3		+	+	
	+	53.8	11.8	86.3	27.5	17.0	6.4	12.9	2.1	+	11	0.2
MEAN	+	1.79	0.38	2.78	0.98	0.55	0.21	0.42	0.07	+	0.04	+
ACRE-FEET	+	107.	23.	171.	55.	34.	12.7	26.	4.2	+	2.2	0.4

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.60
ACRE-FEET 435.

STATION P286-R
BALLONA CREEK at Curson Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°02'30", LONG. 118°21'45", ON THE RIGHT BANK OF BALLONA CREEK, AND DOWNSTREAM SIDE OF CURSON AVENUE, LOS ANGELES. ELEVATION OF ZERO GAGE HEIGHT 77.91 FEET.

DRAINAGE AREA: 25.42 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - CONCRETE 38.5 FEET WIDE BY 12.7 FEET DEEP. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOW MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOT BRIDGE 20 FEET ABOVE STATION.

RECORDER: AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: HOLLYWOOD RESERVOIR AND SILVERLAKE RESERVOIR.

DIVERSIONS: NONE

RECORDS AVAILABLE: STORM FLOW RECORDS ARE AVAILABLE FROM MARCH 17, 1942 TO SEPTEMBER 30, 1955. DAILY FLOW RECORDS ARE AVAILABLE DECEMBER 2, 1949 TO SEPTEMBER 30, 1961

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 2820 SECOND-FEET JANUARY 11.
MINIMUM 1.4 SECOND-FEET AT VARIOUS TIMES
1960-61
MAXIMUM 3860 SECOND-FEET NOVEMBER 5.
MINIMUM 0.5 SECOND FOOT AUGUST 6.
1942-61
MAXIMUM OF RECORD 5130 SECOND-FEET FEBRUARY 19, 1958.
MINIMUM OF RECORD 0.5 SECOND-FOOT AUGUST 6, 1961.

ACCURACY: FAIR

OPERATION: LOCATED AND STILLING WELL CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, AND TRANSFERRED TO THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN JULY 1949. OPERATED AND RECORDER HOUSE CONSTRUCTED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

74D74M Gfb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F298-R

Daily discharge, in second-feet of BALLONA CREEK at Curson Avenue, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	7.3	7.3	5.4	1.6	239	5.4	1.8	1.6	4.5	5.4	3.6	4.5
2	5.4	6.4	5.4	1.4	6.4	1.8	1.8	2.7	2.7	3.6	3.6	4.5
3	7.3	6.4	8.2	1.4	4.5	2.7	3.6	2.7	3.6	4.5	4.5	3.6
4	5.4	8.2	5.4	1.4	4.5	3.6	12.8	5.4	3.6	4.5	2.7	2.7
5	7.3	8.2	4.5	1.4	4.5	2.7	11.0	3.6	3.6	5.4	5.4	3.6
6	6.4	6.4	4.5	1.8	4.5	2.7	6.4	3.6	3.6	7.3	3.6	6.4
7	7.3	5.4	5.4	1.6	6.4	2.7	7.3	2.7	2.7	4.5	1.8	8.2
8	5.4	5.4	12.6	1.6	74	5.4	6.4	2.7	2.7	6.4	5.4	3.6
9	8.2	7.3	7.3	5.0	6.4	2.7	7.3	2.7	3.6	6.4	7.3	4.5
10	5.4	10.1	6.4	214	16.2	2.7	6.4	1.6	2.7	5.4	2.7	3.6
11	5.4	8.2	5.4	288	1.8	5.4	8.2	1.8	2.7	4.5	4.5	3.6
12	6.4	9.2	5.4	43	3.6	3.6	7.3	1.8	1.8	4.5	8.2	6.4
13	7.3	10.1	5.4	1.8	3.6	3.6	7.3	1.6	3.6	5.4	3.6	6.4
14	8.2	11.0	4.5	59	2.7	4.5	7.3	1.8	2.7	4.5	2.7	2.7
15	5.4	8.2	5.4	5.0	2.7	4.5	8.2	1.8	2.7	4.5	5.4	2.7
16	5.4	7.3	5.4	4.5	2.7	5.4	4.5	2.7	3.6	2.7	6.4	4.5
17	5.4	6.4	5.4	2.7	2.7	2.7	5.4	1.8	5.4	4.5	4.5	3.6
18	5.4	5.4	5.4	1.6	2.7	3.6	6.4	2.7	4.5	5.4	5.4	2.7
19	5.4	4.5	3.6	1.6	3.6	4.5	6.4	3.6	4.5	7.3	7.3	6.4
20	5.4	4.5	6.8	1.6	2.7	6.4	5.4	3.6	5.4	7.3	2.7	1.6
21	5.4	5.4	24	1.6	1.8	5.4	6.4	2.7	5.4	4.5	1.8	1.8
22	5.4	2.7	7.3	1.8	2.7	7.3	6.4	1.4	5.4	6.4	4.5	3.6
23	4.5	3.6	6.4	1.8	2.7	4.5	7.3	1.6	3.6	7.3	8.2	2.7
24	2.7	3.6	149	1.8	3.6	5.4	3.6	2.7	4.5	5.4	4.5	1.8
25	2.7	4.5	e 10.0	28	3.6	7.3	3.6	1.8	4.5	8.2	4.5	1.6
26	3.6	5.4	1.8	6.4	4.5	8.2	84	1.8	5.4	8.2	4.5	2.7
27	2.7	3.6	1.8	4.5	6.4	7.3	260	2.7	5.4	8.2	5.4	3.6
28	2.7	4.5	1.8	2.7	44	23	5.4	2.7	6.4	4.5	5.4	1.6
29	2.7	5.4 e	1.8	2.7	65	2.7	3.6	3.6	6.4	4.5	8.2	2.7
30	3.6	5.4	1.8	5.4		2.7	2.7	1.8	4.5	5.4	5.4	2.7
31	2.7		1.8	4.5		3.6		3.6		2.7	6.4	
	163.8		325.3		529.5		514.2		121.7		150.1	
		190.0		701.2		154.0		78.9		169.3		110.6
MEAN	5.28	6.30	10.5	22.6	18.3	4.97	17.1	2.55	4.06	5.46	4.84	3.69
ACRE-FEET	325.	377.	645.	1390.	1050.	305.	1020.	156.	241.	336.	298.	219.

Remarks:

YEAR OR PERIOD MEAN 87.7
ACRE-FEET 6360.

74D74M Gfb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

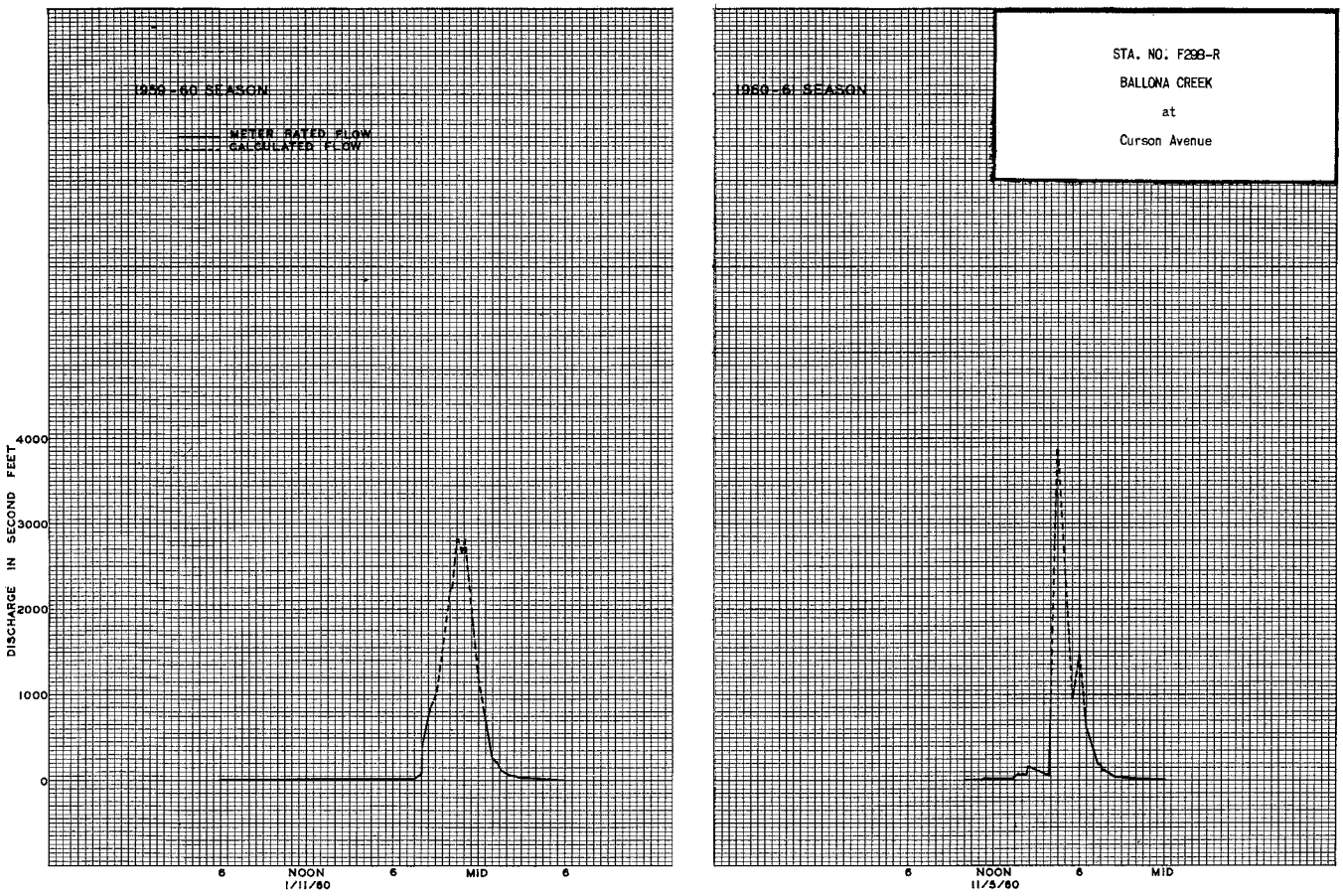
Sta. No. F298-R

Daily discharge, in second-feet of BALLONA CREEK at Curson Avenue, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.2	4.0	5.3	7.7	7.7	5.7	4.0	6.7	4.0	4.0	2.5	2.5
2	3.2	4.0	19.2	8.7	8.7	6.7	4.0	4.8	4.0	3.2	2.5	2.5
3	4.8	60	1.9	9.9	7.7	6.7	4.8	4.0	2.5	4.0	4.0	2.5
4	4.8	15.0	1.4	11.1	5.7	6.7	4.8	4.0	2.5	2.5	3.2	1.4
5	4.0	24.3	1.4	8.7	5.7	7.7	4.8	4.8	4.0	4.0	1.4	1.9
6	5.7	11.7	1.4	8.7	5.7	7.7	4.8	4.0	4.0	4.8	0.5	4.0
7	7.7	4.8	1.4	8.7	4.8	5.7	5.7	4.0	3.2	5.7	1.9	4.8
8	7.7	4.0	1.9	8.7	4.8	5.7	5.7	4.0	3.2	4.0	1.9	4.8
9	7.7	3.2	1.9	8.7	5.7	4.8	4.8	4.0	4.0	4.0	1.9	4.8
10	9.9	3.2	1.4	11.4	5.7	8.7	7.7	4.0	4.0	4.8	1.9	5.7
11	8.7	2.5	1.4	9.1	5.7	4.8	4.8	5.7	1.9	3.2	18.0	6.7
12	7.7	11.8	1.4	4.0	5.7	5.7	5.7	4.8	3.2	1.9	7.7	5.7
13	7.7	10.3	1.9	4.0	5.7	5.7	6.7	5.7	2.5	2.5	6.7	4.8
14	8.7	3.2	1.9	4.0	5.7	6.0	6.7	4.8	3.2	4.0	6.7	5.7
15	8.7	1.9	1.9	4.0	6.7	6.6	4.8	5.7	3.2	3.2	5.7	8.7
16	7.7	1.9	1.4	4.8	4.8	5.7	4.8	6.7	4.0	1.9	5.7	4.8
17	7.7	1.9	0.9	4.8	6.7	4.8	5.7	6.7	4.0	3.2	5.7	4.8
18	7.7	1.9	0.9	5.7	8.7	4.0	4.8	6.7	3.2	4.0	5.7	5.7
19	7.7	2.5	1.9	5.7	7.7	3.2	4.8	6.7	4.8	4.8	7.7	7.7
20	7.7	1.9	1.9	4.8	11.1	4.0	4.8	6.7	4.0	4.8	7.7	7.7
21	7.7	1.9	1.9	4.8	12.3	4.0	8.7	6.7	3.2	6.7	6.7	6.7
22	6.7	2.5	1.4	5.7	11.1	4.0	51	6.7	4.8	5.7	6.7	6.7
23	5.7	3.2	1.9	7.7	8.7	5.7	7.7	4.8	6.7	3.2	5.7	3.2
24	6.7	2.5	1.9	8.7	6.7	9.4	6.7	4.0	4.0	4.8	4.8	2.5
25	5.7	3.2	1.9	37	8.7	4.0	6.7	4.8	6.7	4.0	5.7	5.7
26	4.8	126	1.9	314	4.0	4.0	6.7	3.2	8.7	4.0	4.0	5.7
27	4.8	2.5	4.0	6.7	4.8	6.1	5.7	2.5	6.7	2.5	4.0	6.7
28	4.8	1.9	4.0	5.7	6.7	12.8	5.7	1.9	7.7	2.5	3.2	7.7
29	4.8	1.4	4.0	5.7		2.5	5.7	3.2	4.0	3.2	2.5	6.7
30	4.8	1.4	5.7	5.7		4.0	5.7	2.5	4.8	2.5	2.5	6.7
31	4.0		6.7	5.7		4.8		3.2		3.2	2.5	
	199.2		88.0		193.7		215.0		126.7		147.3	
		750.7		550.6		237.3		148.0		116.8		155.5
MEAN	6.43	25.0	2.84	17.8	6.92	7.65	7.17	4.77	4.22	3.77	4.75	5.18
ACRE-FEET	395.	1490.	175.	1090.	384.	471.	426.	294.	251.	232.	292.	308.

Remarks:

YEAR OR PERIOD MEAN 8.02
ACRE-FEET 5810.



STATION F36B-R
BALLONA CREEK at Sawtelle Boulevard

LOCATION: WATER STAGE RECORDER. LAT. 33°59'48", LONG. 118°24'07", ON THE DOWNSTREAM SIDE OF SAWTELLE BOULEVARD BRIDGE, ABOUT 1.5 MILES SOUTH OF CULVER CITY. ELEVATION OF ZERO GAGE HEIGHT, 11.26 FEET. FORMER STATION F38-R WAS AT CENTINELA BOULEVARD, ONE MILE DOWNSTREAM.

DRAINAGE AREA: 88.6 SQUARE MILES. (PREVIOUS TO OCTOBER 1950, DRAINAGE WAS 111. SQUARE MILES).

CHANNEL AND CONTROL: CHANNEL - HEAVY ADOBE OVERLAID WITH COARSE GRAVEL AND SAND WITH ROCK-PAVED, GUNITED LEVEES ON A 3 TO 1 SLOPE. CONTROL - A CONCRETE STABILIZER WAS INSTALLED DECEMBER 23, 1946 ABOUT 30 FEET BELOW STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM CABLE CAR 300 FEET ABOVE STATION,

RECORDER: A STEVENS A-35 RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: STONE CANYON RESERVOIR PRIOR TO JANUARY 1951, UPPER AND LOWER FRANKLIN CANYON RESERVOIRS, HOLLYWOOD RESERVOIR, SILVER LAKE RESERVOIR, AND BALDWIN HILLS RESERVOIR.

DIVERSIONS: SOME SMALL PUMPING DIVERSIONS FOR IRRIGATION.

RECORDS AVAILABLE: AT STATION F38-R - FEBRUARY 27, 1928 TO APRIL 27, 1936: AT STATION F38B-R - MAY 14, 1936 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 12490 SECOND-FEET, JANUARY 11.
MINIMUM 2.2 SECOND-FEET, DECEMBER 6.
1960-61
MAXIMUM 7700 SECOND-FEET, NOVEMBER 5.
MINIMUM 4.2 SECOND-FEET, JANUARY 2.
1928-61 (STATIONS F38-R AND F38B-R)
MAXIMUM 19000 SECOND-FEET, MARCH 2, 1938, (171.2 CFS PER SQUARE MILE).
MAXIMUM 18900 SECOND-FEET FEBRUARY 13, 1954 (213.3 CFS PER SQUARE MILE).
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD, FAIR PART OF AUGUST AND ALL SEPTEMBER 1961.

OPERATION: LOCATED AND CONSTRUCTED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND OPERATED IN COOPERATION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY AND WITH THE U.S.G.S. WATER RESOURCES BRANCH.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F38B-R

Daily discharge, in second-feet of BALLONA CREEK at Sawtelle Boulevard, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.2	4.8	a 5.0	3.9	8.2	2.6	6.3	4.9	8.4	9.6	9.6	7.5
2	7.5	5.6	a 5.0	3.2	4.2	7.5	6.3	5.9	8.0	7.1	9.6	8.8
3	7.0	3.5	5.0	3.2	6.3	7.5	5.6	5.9	7.5	6.7	10.0	7.5
4	6.0	4.5	4.2	4.9	5.9	8.0	16.0	8.0	7.5	5.6	10.0	5.9
5	5.3	3.2	3.6	6.3	5.9	6.3	14.0	6.3	7.5	8.0	11.0	5.6
6	6.5	4.2	2.2	7.1	5.2	5.2	8.4	6.3	7.5	10.0	8.4	8.0
7	6.2	5.6	3.5	6.7	5.9	5.6	7.5	6.3	8.4	9.6	6.7	8.4
8	6.4	7.1	14.0	5.9	22.1	5.9	8.0	5.6	8.4	8.8	9.6	8.4
9	6.5	7.1	7.5	18.0	26	4.9	8.0	7.1	10.0	8.0	9.6	8.4
10	6.4	6.3	8.8	21.3	9.2	4.9	5.9	6.7	9.6	8.0	10.0	8.0
11	5.6	5.6	7.5	96.2	8.0	6.3	7.1	7.1	8.8	9.2	9.2	7.1
12	4.9	5.2	6.7	37.6	7.5	5.9	6.7	8.4	6.7	10.0	10.0	9.6
13	6.3	8.0	3.2	b 4.5	9.2	5.6	6.7	7.5	8.8	12.0	6.3	12.0
14	6.9	11.0	6.7	19.5	5.6	6.7	6.7	7.1	10.0	12.0	5.2	9.2
15	6.8	5.9	6.7	10.6	5.9	8.0	6.7	5.6	7.1	11.0	7.1	8.8
16	6.8	8.0	6.3	6.3	6.7	8.8	6.7	8.8	7.1	9.6	8.8	8.8
17	6.7	11.0	6.3	4.3	7.1	8.0	6.3	7.5	8.4	9.6	7.1	7.5
18	6.6	13.0	6.7	5.2	6.7	8.4	7.5	7.1	6.7	10.0	7.1	5.9
19	C 6.0	8.8	4.5	6.3	a 6.0	7.5	8.0	7.1	6.3	10.0	9.6	8.4
20	5.6	8.0	4.2	7.1	6.0	7.1	8.4	6.7	8.0	12.0	6.7	7.5
21	4.9	9.2	8.0	7.5	7.0	6.3	8.4	7.1	8.0	12.0	5.6	7.1
22	7.1	2.5	10.0	8.0	7.0	8.4 a	8.0	5.2	10.0	12.0	6.7	7.5
23	8.8	10.0	7.7	6.3	8.0	6.3	8.0	6.3	8.4	10.0	8.0	8.0
24	8.4	10.0	7.02	5.6	a 8.0	5.9	8.0	8.8	8.4	7.1	a 8.0	8.0
25	7.1	7.1	27	10.4	8.8	6.3	8.0	7.5	7.5	11.0	a 8.0	6.3
26	8.0	6.3	4.5	18.0	8.4	6.3	26.5	7.5	8.0	10.0	a 8.0	6.7
27	8.0	a 6.0	4.5	7.1	9.2	5.6 a	1290	8.0	8.4	11.0	7.1	7.5
28	7.1	6.0	5.2	7.1	12.8	7.6	45	7.1	8.0	9.2	6.3	7.5
29	7.1	6.0	6.3	8.0	26.9	6.7	5.9	7.1	8.8	10.0	8.0	6.7
30	8.8	a 6.0	5.9	8.8		6.7	6.7	5.6	9.2	9.6	8.4	7.1
31	7.5		5.2	5.6		6.7		6.3		5.9	9.6	
	211.0		975.5		1754.3		1809.8		245.4		255.3	
		248.7		2130.8		295.3		212.4		294.6		233.7
MEAN	6.81	8.29	31.5	68.7	60.5	9.53	60.3	6.85	8.18	9.55	8.26	7.79
ACRE-FEET	419.	493.	1930.	4225.	3480.	586.	3590.	421.	487.	585.	506.	464.

Remarks:

YEAR OR PERIOD MEAN 23.7
ACRE-FEET 17,190.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

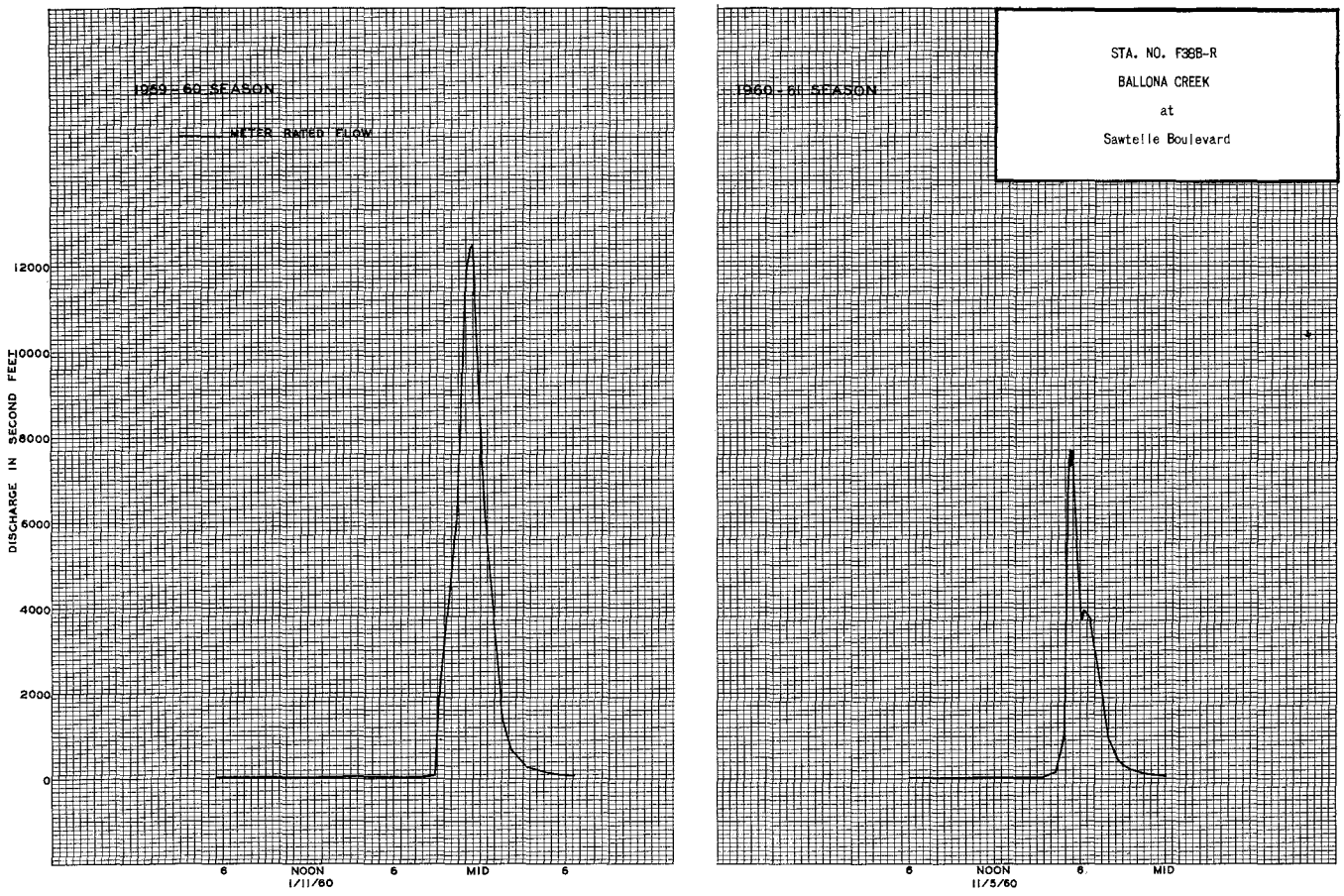
Sta. No. F38B-R

Daily discharge, in second-feet of BALLONA CREEK at Sawtelle Boulevard, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.9	8.4	9.4	4.5	10.0	8.0	6.3	8.8	7.1	8.0	7.1	e 6.2
2	5.6	8.4	9.0	4.2	14.0	8.0	5.2	8.0	9.6	6.3	8.0	6.2
3	7.1	16.7	5.9	6.3	12.0	7.5	7.5	7.5	6.7	7.5	10.0	6.2
4	9.2	6.7	5.6	7.1	10.0	6.7	8.4	7.1	5.6	6.3	10.0	5.1
5	8.0	5.60	8.8	6.7	8.4	6.3	6.3	8.8	7.1	7.5	7.5	5.6
6	8.0	4.77	6.7	8.0	9.6	8.0	6.7	7.5	8.8	11.0	4.9	7.7
7	8.8	8.0	6.7	6.7	9.2	8.0	7.5	5.9	8.4	10.0	8.8	8.5
8	8.0	6.3	6.7	5.9	8.4	8.4	7.1	8.0	8.0	8.8	10.0	8.5
9	7.1	6.3	6.7	7.5	8.0	8.0	5.9	7.5	8.8	8.0	9.2	8.5
10	4.4	6.7	6.3	8.0	7.5	8.0	11.0	8.0	9.2	12.0	10.5	9.4
11	8.4	7.1	5.2	9.8	7.1	7.1	8.8	8.4	6.3	12.0	6.8	10.4
12	7.5	3.33	5.6	7.1	7.1	5.9	9.2	8.4	9.2	8.4	10.0	9.4
13	8.0	20	6.3	8.0	6.7	8.4	8.4	7.5	10.0	8.0	10.0	8.5
14	8.0	7.5	6.3	7.5	7.5	7.5	9.6	5.9	9.2	8.8	10.0	9.4
15	8.0	7.1	6.3	6.3	8.0	19.3	8.0	7.5	11.0	7.5	9.6	12.4
16	7.1	6.7	6.7	7.1	14.0	5.9	7.5	8.0	11.0	5.6	e 9.4	8.5
17	8.4	6.3	5.9	7.5	7.5	5.9	10.0	8.4	8.4	5.6	9.4	8.5
18	9.6	6.7	5.2	7.5	7.1	5.2	9.6	8.4	6.7	8.6	9.4	9.4
19	8.4	5.9	6.7	7.5	5.9	4.5	10.0	8.4	8.4	11.5	11.4	11.4
20	8.4	5.9	8.4	6.7	8.4	5.9	10.5	8.0	8.8	10.0	11.4	11.4
21	8.8	6.7	7.5	6.3	7.5	7.1	8.8	5.9	8.0	9.6	10.4	10.4
22	7.5	7.1	7.5	4.9	7.5	8.4	135	8.0	8.4	6.7	10.4	10.4
23	6.7	7.9	8.0	6.3	7.5	7.5	6.3	8.4	10.5	4.5	9.4	6.9
24	7.5	6.4	7.5	6.3	7.5	7.8	7.5	8.4	8.0	7.1	8.5	6.2
25	7.1	6.3	5.6	7.2	8.0	2.0	8.0	9.2	5.6	8.4	9.4	9.4
26	7.1	4.16	5.2	9.45	6.3	4.5	10.5	8.8	9.2	7.5	7.7	9.4
27	7.1	7.1	8.0	2.6	7.1	6.3	8.4	6.7	9.2	7.5	7.7	10.4
28	8.0	5.2	6.7	12.0	8.0	3.1	8.0	5.6	8.4	7.5	6.9	11.4
29	8.0	5.2	6.3	7.1		6.7	7.1	6.3	8.8	7.5	6.2	10.4
30	7.1	5.2	6.7	8.0		8.4	5.9	5.9	11.0	4.9	6.2	e 10.4
31	8.0		6.3	7.5		8.4		6.3		7.5	e 6.2	
	276.4		290.7		235.8		369.0		255.4		333.6	
		2134.1		1241.3		442.3		235.5		250.1		266.5
MEAN	8.92	71.1	9.38	40.	8.42	14.3	12.3	7.58	8.51	8.07	10.8	8.9
ACRE-FEET	548.	4230.	577.	2460.	468.	877.	732.	767.	507.	496.	662.	529.

Remarks:

YEAR OR PERIOD MEAN 17.3
ACRE-FEET 12,560.



STATION F282-R
BALLONA CREEK at Pacific Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 33°57'48", LONG. 118°27'13", ON THE CENTER BRIDGE PIER, UPSTREAM SIDE OF THE BRIDGE. ELEVATION OF ZERO GAGE HEIGHT 0.00 FEET M.S.L. AFTER JULY 16, 1958. (PREVIOUSLY – 2.8 FEET M.S.L.)

CHANNEL AND CONTROL:
CHANNEL - ADOBE, OVERLAID WITH COARSE GRAVEL AND SAND, WITH ROCK PAVED LEVEES.

RECORDS AVAILABLE:
CONTINUOUS WATER-STAGE RECORDS AVAILABLE FROM AUGUST 9, 1940 TO SEPTEMBER 30, 1961.

PURPOSE:
FOR HYDRAULIC STUDIES ONLY. DISCHARGE MEASUREMENTS ARE NOT MADE NOR DAILY FLOWS COMPUTED.

OPERATION:
LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

STATION F120B-R
BIG DALTON CREEK below Big Dalton Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'06", LONG. 117°48'34", ON THE RIGHT (WEST) BANK ABOUT 400 FEET BELOW THE OLD TOE WALL ON THE DOWNSTREAM SIDE OF BIG DALTON DAM AND ABOUT 5 MILES NORTHEAST OF GLENDORA. ELEVATION OF ZERO GAGE HEIGHT, 1539.63 FEET.

DRAINAGE AREA: 4.8 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - GRAVEL AND ROCK LINED WITH WILLOWS. CONTROL CONCRETE BROAD-CRESTED WEIR COMPLETED DECEMBER 23, 1946.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOW MEASURED FROM FOOTBRIDGE.

RECORDER: A STEVENS A-35 RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: 4.5 SQUARE MILES REGULATED BY BIG DALTON DAM. 0.3 SQUARE MILES UNREGULATED FLOW FROM KERIL CANYON.

DIVERSIONS: NONE.

RECORDS AVAILABLE: RESERVOIR OUTFLOW RECORDS FROM OCTOBER 1929 TO JUNE 3, 1940. RECORDER RECORDS FROM JUNE 3, 1940 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 5.0 SECOND-FEET, JULY 21.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM 37.1 SECOND-FEET, NOVEMBER 14.
MINIMUM NO FLOW MOST OF YEAR.
1940-61
MAXIMUM 111 SECOND-FEET, MARCH 4, 1943.
MINIMUM NO FLOW PART OF EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

7601M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F120B-R

Daily discharge, in second-feet of BIG DALTON CREEK below Big Dalton Dam for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	a 1.7	0	0
22	0	0	0	0	0	0	0	0	0	1.4	0	0
23	0	0	0	0	0	0	0	0	0	1.5	0	0
24	0	0	0	0	0	0	0	0	0	0.5	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		0		0		0		0		0	
		0		0		0		0		5.1		0
MEAN	0	0	0	0	0	0	0	0	0	0.16	0	0
ACRE-FEET	0	0	0	0	0	0	0	0	0	10.	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN +
ACRE-FEET 10.

76D74M Gth 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F120B-R

Daily discharge, in second-feet of BIG DALTON CREEK below Big Dalton Dam for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.3	0	0	0	0	0	0	0	0	0	0
2	0	0.1	0	0	0	0	0	0	0	0	0	0
3	0	1.0	0	0	0	0	0	0	0	0	0	0
4	0	0.1	0	0	0	0	0	0	0	0	0	0
5	0	1.5	0	0	0	0	0	0	0	0	0	0
6	0	+	0	0	0	0	0	0	0	0	0	0
7	0	+	0	0	0	0	0	0	0	0	0	0
8	0	b 5.0	0	0	0	0	0	0	0	0	0	0
9	0	0.1	0	0	0	0	0	0	0	0	0	0
10	0.8	+	0	0	0	0	0	0	0	0	0	0
11	0.7	+	0	0	0	0	0	0	0	0	0	0
12	0.4	0.2	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	b 7.6	0	0	0	0	0	0	0	0	0	0
15	0	2.6	0	0	0	0	0	0	0	0	0	0
16	0	9.2	0	0	0	0	0	0	0	0	0	0
17	0	1.0	0	0	0	0	0	0	0	0	0	0
18	0	b 1.0	0	0	0	0	0	0	0	0	0	0
19	0	0.1	0	0	0	0	0	0	0	0	0	0
20	0	0.1	0	0	0	0	0	0	0	0	0	0
21	0	+	0	0	0	0	0	0	0	0	0	0
22	0	+	0	0	0	0	0	0	0	0	0	0
23	0	0.1	0	0	0	0	0	0	0	0	0	0
24	8.9	0.1	0	0	0	b 0.6	0	0	0	0	0	0
25	12.8	0.1	0	0	0	b 0.5	0	0	0	0	0	0
26	14.3	0.4	0	b 1.7	0	0	0	0	0	0	0	0
27	9.1	+	0	0	0	0	0	0	0	0	0	0
28	1.2	0	0	0	0	0	0	0	0	0	0	0
29	0.8	0	0	0.5		0	0	0	0	0	0	0
30	0.5	0	0			0	0	0	0	0	0	0
31	0.4	0	0	0		0		0		0	0	
	499		0		0		0		0		0	
		30.6		2.2		1.1		0		0		0
MEAN	1.61	0.99	0	0.07	0	0.04	0	0	0	0	0	0
ACRE-FEET	99.	61.	0	4.4	0	2.2	0	0	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.23
ACRE-FEET 167.

STATION U9-R
BIG DALTON CREEK near Mouth of Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR CONTROL. LAT. 34°09'30", LONG. 117°49'40", IN CENTER OF SEC. 21, T.1N, R9W, ON RIGHT BANK, 0.6 MILE UPSTREAM FROM MOUTH OF CANYON AND 2.6 MILES NORTHEAST OF GLENDORA. ALTITUDE OF GAGE ABOUT 1170 FEET.

DRAINAGE AREA: 7.5 SQUARE MILES.

RECORDS AVAILABLE: DECEMBER 1919 TO SEPTEMBER 1961.

AVERAGE DISCHARGE: 41 YEARS (1920-61) 1.06 SECOND-FEET.

EXTREMES:
1959-60
MAXIMUM DISCHARGE 1.6 SECOND-FEET JULY 24, (GAGE HEIGHT 1.55 FEET).
MINIMUM NO FLOW DURING MOST OF YEAR.
1960-61
MAXIMUM DISCHARGE 79 SECOND-FEET NOVEMBER 12, (GAGE HEIGHT 2.72 FEET).
MINIMUM NO FLOW FOR MOST OF YEAR.
1919-61
MAXIMUM DISCHARGE ABOUT 1000 SECOND-FEET MARCH 2, 1920.
MINIMUM NO FLOW FOR SEVERAL MONTHS OF EACH YEAR.

REMARKS: RECORDS GOOD FOR LOW FLOWS. REGULATION AT BIG DALTON FLOOD CONTROL DAM. GLENDORA IRRIGATING CO. DIVERTED 49 ACRE-FEET DURING 1959-60 AND 89 ACRE FEET IN 1960-61

OPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY WATER RESOURCES BRANCH, TWENTY-NINE DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

74D74M C4b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U9-R

Daily discharge, in second-feet of BIG DALTON CREEK near Mouth of Canyon, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0.2	0	0
24	0	0	0	0	0	0	0	0	0	0.4	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	0	0	0	0	0	0.6	0	0
MEAN	0	0	0	0	0	0	0	0	0	0.02	0	0
ACRE-FEET	0	0	0	0	0	0	0	0	0	1.2	0	0

Remarks:

YEAR OR PERIOD MEAN 0.002
ACRE-FEET 1.2

74D74M C4b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U9-R

Daily discharge, in second-feet of BIG DALTON CREEK near Mouth of Canyon, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.4	0.1	0	0.1	0	0.1	0	0	0	0	0
2	0	0.4	0.1	0	0.1	0	0.1	0	0	0	0	0
3	0	3.0	0.1	0	0.1	0	0.1	0	0	0	0	0
4	0	0.5	0.1	0	0.1	0	0.1	0	0	0	0	0
5	0	3.2	0.1	0	0.1	0	0.1	0	0	0	0	0
6	0	0.4	0.1	0	0.1	0	0.1	0	0	0	0	0
7	0	0.3	0.1	0	0.1	0	0.1	0	0	0	0	0
8	0	3.0	0.1	0	0.1	0	0.1	0	0	0	0	0
9	0	0.2	0.1	0	0.1	0	0.1	0	0	0	0	0
10	0	0.1	0.1	0	0.1	0.1	0.1	0	0	0	0	0
11	0	0.1	0	0	0.1	0.1	0	0	0	0	0	0
12	0	5.3	0	0	0.1	0.1	0	0	0	0	0	0
13	0	0.2	0	0	0.1	0.1	0	0	0	0	0	0
14	0	7.5	0	0	0.1	0.1	0	0	0	0	0	0
15	0	2.9	0	0	0.1	0.1	0	0	0	0	0	0
16	0	0.3	0	0	0.1	0	0	0	0	0	0	0
17	0	0.2	0	0	0.1	0	0	0	0	0	0	0
18	0.1	0.1	0	0	0.1	0	0	0	0	0	0	0
19	0.3	0.1	0	0	0.1	0	0	0	0	0	0	0
20	0.2	0.1	0	0	0.1	0	0	0	0	0	0	0
21	0.1	0.1	0	0	0.1	0	0	0	0	0	0	0
22	0.1	0.1	0	0.1	0.1	0	0	0	0	0	0	0
23	0.1	0.1	0	0.1	0.1	0	0	0	0	0	0	0
24	7.8	0.1	0	0.1	0.1	1.1	0	0	0	0	0	0
25	1.6	0.1	0	0.1	0.1	1.0	0	0	0	0	0	0
26	1.6	3.3	0	4.5	0	0.1	0	0	0	0	0	0
27	1.1	0.1	0	0.3	0	0.1	0	0	0	0	0	0
28	2.1	0.1	0	0.2	0	0.1	0	0	0	0	0	0
29	1.0	0.1	0	0.1		0.1	0	0	0	0	0	0
30	0.8	0.1	0	0.1		0.1	0	0	0	0	0	0
31	0.5		0	0.1		0.1		0		0	0	
	56.2	32.5	1.0	5.7	2.5	3.3	1.0	0	0	0	0	0
MEAN	1.81	1.08	0.03	0.18	0.09	0.11	0.03	0	0	0	0	0
ACRE-FEET	111.	64.	2.0	11.	5.0	6.5	2.0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.28
ACRE-FEET 202.

STATION F202-R
BIG DALTON WASH at Sierra Madre Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°08'49", 117°50'13", ON THE RIGHT (WEST) BANK OF CHANNEL, 74 FEET UPSTREAM OF SIERRA MADRE AVENUE. ELEVATION OF ZERO GAGE HEIGHT 990.8 FEET ABOVE MEAN SEA LEVEL.

DRAINAGE AREA: 10.98 SQUARE MILES. (7.67 SQUARE MILES PRIOR TO OCTOBER 1959).

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE 20 FEET WIDE AND 10 FEE DEEP. BOTTOM IS WARPED 0.33 FOOT TOWARD STATION.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM STEEL FOOTBRIDGE AT STATION.

RECORDER: AN H.C.F. RECORDER WAS IN SERVICE FROM MARCH 1, 1960 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY BIG DALTON DAM, BIG AND LITTLE DALTON SPREADING GROUNDS AND BIG DALTON AND LITTLE DALTON DEBRIS BASINS.

DIVERSIONS: GLENDORA MUTUAL WATER COMPANY DIVERTS FLOW FROM BIG AND LITTLE DALTON CANYONS.

RECORDS AVAILABLE: DECEMBER 27, 1951 TO MAY 8, 1959 AND MARCH 1, 1960 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM NO FLOW ENTIRE YEAR
MINIMUM NO FLOW ENTIRE YEAR
1960-61
MAXIMUM 37.6 SECOND-FEET NOVEMBER 12.
MINIMUM NO FLOW MOST OF YEAR
1951-61
MAXIMUM 80 SECOND-FEET JANUARY 26, 1956.
MINIMUM NO FLOW MOST OF EVERY YEAR.

ACCURACY: FAIR

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F202-R

Daily discharge, in second-feet of BIG DALTON CREEK at Sierra Madre Avenue, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	+	0.5	0	0	0	0	0	0	0	0
2	0	+	+	0.1	0	0	0	0	0	0	0	0
3	0	0.8	0	+	0	0	0	0.5	0	0	0	0
4	0	+	0	+	0	+	0	1.6	0	0	0	0
5	0	0.2	0	0	0	0	0	+	0	0	0	0
6	0	0.1	0	0	0	0	+	+	0	0	0	0
7	0	+	0	0	0	0	0	0	0	0	0	0
8	0	+	0	0	0	0	0	0	0	0	0	0
9	+	+	0	0	0	0	0	0	0	0	0	0
10	+.	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	1.6	0	0	+	0	0	0	0	0	0	0
13	0	1.5	0	0	0	0	0	0	0	0	0	0
14	0	0.9	0	0	0	0	0	0	0	0	0	0
15	0	0.5	0	0	0	0.1	0	0	0	0	0	0
16	0	0.3	0	0	0	+	0	0	0	0	0	0
17	0	0.1	0	0	0	0	0	0	0	0	0	0
18	0	+	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	+	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0.1	0	0	0	0	0	0
25	+	0	0	+	0	0.1	0	0	0	0	0	0
26	|	0.2	0	0.5	0	+	0	0	0	0	0	0
27	|	+	0	+	0	+	0	0	0	0	0	0
28	|	0	0	|	0	0.1	0	0	0	0	0	0
29	|	0	0	|		+	0	0	0	0	0	0
30	|	0	0.3	+		0	0	0	0	0	0	0
31	+		0.5	0		0		0		0	0	
	+		0.8		+		+		0		0	
		6.2		1.1		0.4		2.1		0		0
MEAN	+	0.21	0.03	0.04	+	0.01	+	0.07	0	0	0	0
ACRE-FEET	+	12.3	1.6	2.2	+.	0.8	+	4.2	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN .03
ACRE-FEET 21.1

TAD 74M C/b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

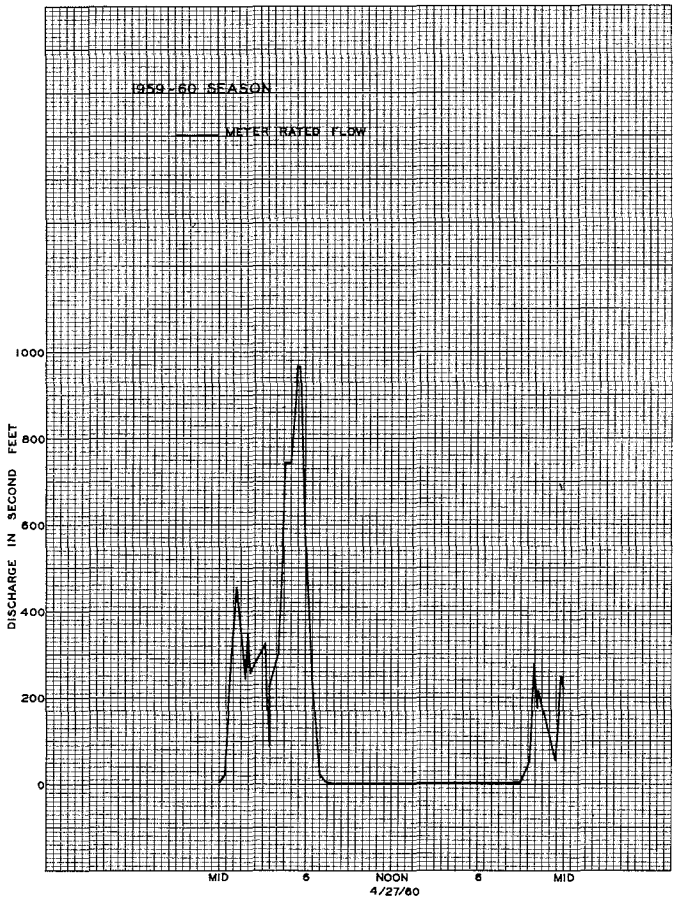
Sta. No. F274B-R

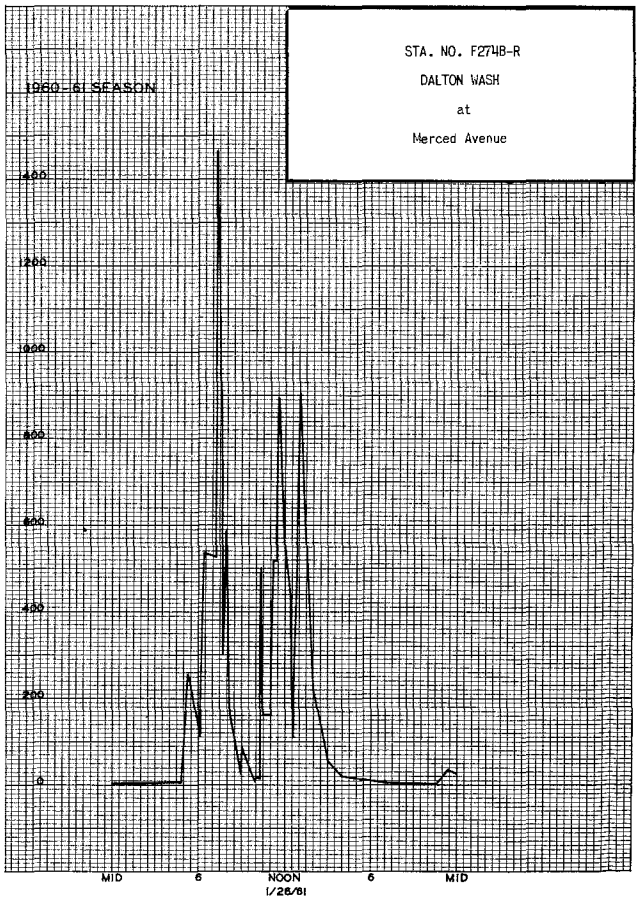
Daily discharge, in second-feet of DALTON WASH at Merced Avenue, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	2.0	1.4	1.6	0.6	b 2.4	5.3	3.1	1.0	1.6	0.4	0.8
2	0.8	1.6	7.3	1.8	0.4	3.1	4.6	2.0	1.2	0.6	1.4	0.8
3	1.4	7.4	1.8	1.6	0.4	3.1	4.6	6.0	1.0	0.8	0.8	0.8
4	1.6	2.4	1.8	1.8	0.4	2.0	3.8	7.4	0.4	0.3	0.6	0.8
5	1.6	5.5	2.4	1.8	0.6	b 2.0	5.3	6.7	0.8	0.3	0.6	0.6
6	1.8	3.0	1.4	1.8	1.2	b 2.0	6.0	5.3	2.4	0.3	0.4	0.6
7	2.0	0.4	1.8	1.6	1.8	2.0	5.3	5.3	1.4	0.8	0.4	0.6
8	2.0	0.3	1.6	1.8	1.8	b 2.0	4.6	2.4	0.8	1.6	1.0	0.8
9	3.9	0.6	1.8	2.0	1.8	2.4	4.6	2.4	0.4	0.6	0.4	0.4
10	5.9	0.4	3.1	1.6	2.0	3.1	4.6	2.2	1.2	1.0	0.4	0.3
11	1.8	0.8	3.1	1.8	2.2	5.3	4.6	2.0	1.0	1.8	0.3	0.3
12	1.4	4.4	3.8	1.8	2.0	b 4.6	3.1	1.6	1.0	1.8	0.3	0.4
13	2.0	1.2	2.2	2.0	1.6	b 3.9	3.1	2.2	0.8	1.8	0.3	0.4
14	1.4	1.0	2.0	2.0	1.2	b 3.2	2.4	2.2	0.8	1.0	0.4	0.3
15	1.2	1.6	2.2	2.2	1.2	2.6	2.0	1.6	1.6	1.4	0.4	0.2
16	1.8	1.2	2.2	1.4	b 1.5	b 2.5	3.1	1.2	1.8	1.2	0.3	0.3
17	1.4	0.6	2.4	2.0	1.5	b 1.2	2.2	1.0	2.0	1.2	0.4	0.3
18	1.6	0.4	2.4	1.8	1.5	1.0	2.4	1.0	1.0	0.6	1.4	0.6
19	1.4	1.6	3.8	1.8	1.5	1.0	2.4	2.2	0.8	1.4	1.4	0.8
20	1.0	1.6	3.1	3.6	1.5	1.2	3.1	3.1	1.2	1.2	0.4	0.4
21	0.8	2.0	2.4	3.8	1.5	1.6	3.8	2.4	1.4	1.0	0.3	0.6
22	1.0	1.8	2.4	3.1	1.5	3.1	11.3	3.1	1.4	0.6	0.3	1.4
23	0.8	1.6	1.6	3.1	b 1.5	3.1	6.0	2.0	0.8	1.0	0.2	1.4
24	1.2	1.8	2.0	4.6	1.4	11.7	3.1	4.6	2.0	1.0	0.3	0.8
25	0.4	2.2	2.0	4.6	2.0	18.7	3.1	2.4	0.4	0.4	0.4	1.0
26	1.0	6.2	1.8	150	2.0	2.2	3.8	1.0	0.6	0.6	0.6	0.3
27	1.0	2.4	1.2	b 3.1	2.0	3.1	2.4	3.8	0.6	1.2	0.6	0.3
28	1.2	1.6	1.0	1.4	b 2.0	9.4	4.6	2.2	1.4	1.0	0.8	0.2
29	1.6	1.0	0.4	1.0		5.3	2.4	2.0	1.2	1.2	0.8	0.3
30	1.4	1.6	0.8	0.8		5.3	2.4	1.4	1.0	0.6	1.0	0.4
31	1.0		1.4	b 0.8		3.8		0.4		0.8	0.8	
	484	298.7	686	2143	406	1413	1184	89.0	338	307	181	172
MEAN	1.56	9.96	2.21	6.93	1.45	4.56	3.95	2.87	1.13	0.99	0.58	0.55
ACRE-FEET	96.	593.	136.	425.	81.	280.	235.	177.	67.	61.	37.	34.

Remarks:

YEAR OR PERIOD MEAN 3.07
ACRE-FEET 2220.





STATION F274B-R
DALTON WASH at Merced Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°04'29", LONG. 117°57'47", ON THE RIGHT (WEST) BANK AND UPSTREAM OF MERCED AVENUE ABOUT 150 FEET, ABOUT ONE-HALF MILE ABOVE THE JUNCTION WITH WALNUT WASH AND ABOUT ONE MILE SOUTH OF BALDWIN PARK. ELEVATION OF ZERO GAGE HEIGHT 348.26 FEET. FORMER STATION, F274-R, WAS LOCATED 150 FEET DOWNSTREAM.

DRAINAGE AREA: 36.0 SQUARE MILES AFTER SEPTEMBER 1958, AND 28 SQUARE MILES PRIOR TO SEPTEMBER 1958, NOT INCLUDING THE AREA ABOVE PUDDINGSTONE DIVERSION DAM.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE CHANNEL 60 FEET WIDE FY 15 FEET DEEP WITH 0.5 FEET WARP OF CHANNEL BOTTOM AT STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM FOOTBRIDGE 100 FEET UPSTREAM FROM STATION.

RECORDER: A STEVENS A-35 CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: PARTIALLY REGULATED BY BIG DALTON DAM, SAN DIMAS DAM, PUDDINGSTONE DIVERSION DAM, BIG DALTON SPREADING GROUNDS, LITTLE DALTON SPREADING GROUNDS, BIG DALTON DEBRIS BASIN, LITTLE DALTON DEBRIS BASIN, AND IRWINDALE SPREADING GROUNDS.

DIVERSIONS: GLENDORA MUTUAL WATER COMPANY DIVERTS FLOW FROM BOTH BIG AND LITTLE DALTON CANYONS; SAN DIMAS WATER COMPANY AND SAN DIMAS LAND AND WATER COMPANY DIVERTS FLOW FROM SAN DIMAS CREEK.

RECORDS AVAILABLE: NOVEMBER 11, 1940 TO SEPTEMBER 30, 1958 AT STATION F274-R AND FROM OCTOBER 1, 1958 TO SEPTEMBER 30, 1961 AT STATION F274B-R.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 966 SECOND-FEET, APRIL 27.
MINIMUM 0.1 SECOND-FOOT MAY 20.
1960-61
MAXIMUM 1470 SECOND-FEET, JANUARY 26.
MINIMUM 0.2 SECOND-FOOT SEPTEMBER 28.
1940-51
MAXIMUM 2650 SECOND-FEET, FEBRUARY 22, 1944.
MINIMUM NO FLOW PART OF SOME YEARS.

ACCURACY: GOOD

OPERATION: CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F274B-R

Daily discharge, in second-feet of DALTON WASH at Merced Avenue for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.4	1.4	0.8	0.1	6.4	15.0	0.4	0.8	1.8	1.2	5.3	1.0
2	2.0	1.8	0.2	0.1	4.1	0.6	0.6	0.8	1.6	0.8	4.6	1.2
3	2.0	0.4	0.4	0.2	0.3	0.4	1.0	2.0	2.2	1.4	3.1	0.4
4	2.2	0.6	1.0	0.2	0.3	1.4	0.6	2.4	2.0	1.8	3.8	0.8
5	2.2	0.4	1.8	0.2	0.3	1.4	0.4	2.0	3.1	1.4	6.7	0.6
6	1.8	0.3	1.2	0.2	0.3	1.2	0.4	1.6	2.2	0.3	2.2	0.4
7	2.2	0.4	1.6	0.2	0.3	1.4	0.8	1.0	2.2	0.2	2.2	0.4
8	1.2	0.3	2.0	0.4	5.7	0.8	1.0	1.4	2.2	2.2	2.4	0.4
9	2.0	0.6	1.4	1.8	1.0	0.3	0.6	1.8	1.6	2.0	2.0	0.2
10	2.0	0.4	3.4	6.8	11.7	0.4	1.6	1.4	1.4	3.8	2.2	0.2
11	3.1	1.0	1.4	3.3	2.0	0.8	5.8	0.4	1.6	2.4	2.0	0.2
12	2.2	0.6	1.6	4.3	3.1	0.8	2.0	0.2	2.2	3.1	1.4	0.3
13	2.2	0.6	1.4	1.4	2.2	1.4	3.1	0.2	2.0	2.2	1.6	2.4
14	2.0	1.6	1.6	12.0	0.4	1.0	2.4	0.6	1.6	2.0	2.2	1.4
15	2.0	1.6	1.8	11.2	1.6	0.8	2.2	1.8	2.2	1.4	1.8	2.0
16	1.4	1.2	1.6	0.4	4.6	0.6	2.0	1.0	2.2	1.8	1.4	2.2
17	1.6	0.8	1.0	0.2	5.3	0.3	2.2	1.4	1.8	0.8	1.2	1.4
18	2.4	1.2	1.6	1.6	3.1	0.6	2.2	1.6	2.0	3.1	1.6	0.8
19	2.2	0.8	1.8	0.2	2.4	0.8	2.2	0.8	1.6	1.0	0.8	1.0
20	1.6	1.0	3.6	1.6	2.2	1.2	1.4	0.2	0.6	0.3	1.8	0.4
21	0.6	2.0	6.4	5.3	2.0	1.0	1.0	0.3	0.3	0.4	1.6	0.2
22	0.8	1.4	0.1	5.3	3.1	0.8	1.6	1.4	0.4	1.4	2.0	0.2
23	0.8	2.0	0.7	5.3	2.2	1.4	2.4	1.8	0.4	2.2	1.2	0.2
24	1.2	2.0	4.1	5.3	2.2	0.3	1.8	3.8	1.2	5.3	1.8	0.6
25	2.0	2.0	4.4	17.2	0.6	0.8	1.0	3.1	1.8	5.3	2.2	1.4
26	2.0	2.2	0.2	4.8	0.4	1.4	0.6	2.4	2.4	3.8	2.0	1.6
27	2.2	1.2	0.2	0.4	0.4	2.7	13.0	0.4	2.2	2.0	1.8	1.6
28	2.2	0.6	0.2	0.9	7.5	19.6	13.1	0.3	2.4	1.8	2.0	2.0
29	0.8	1.2	0.2	0.6	7.2	0.4	1.2	0.8	2.0	2.4	2.2	2.0
30	1.0	1.0	0.1	0.4		0.6	1.0	2.4	2.0	4.6	1.8	1.6
31	1.6		0.1	0.8		1.1		3.8		6.0	1.0	
	559		124.4		191.8		186.6		532		699	
		326		2223		613		441		684		291
MEAN	1.80	1.09	4.01	7.16	6.62	1.99	6.22	1.42	1.77	2.21	2.25	0.97
ACRE-FEET	111.	65.	245.	441.	380.	122.	370.	87.	105.	136.	139.	58.

Remarks:

YEAR OR PERIOD MEAN 3.11
ACRE-FEET 2260.

STATION U14-R
BIG ROCK CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°25'17", LONG. 117°50'19", IN NE 1/4 SEC. 20, T.4N, R.9W, ON LEFT BANK 0.1 MILE UPSTREAM FROM PUNCHBOWL CANYON AND 0.9 MILE SOUTH OF VALYERMO. ALTITUDE OF GAGE ABOUT 4050 FEET.

DRAINAGE AREA: 23.0 SQUARE MILES.

RECORDS AVAILABLE: JANUARY 1923 TO SEPTEMBER 1937, MAY 1938 TO SEPTEMBER 1961.

AVERAGE DISCHARGE: 38 YEARS (1923-37, 1938-61) 15.3 SECOND-FEET.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 6.5 SECOND-FEET FEBRUARY 1. (GAGE HEIGHT 1.85 FEET).
MINIMUM 1.3 SECOND-FEET SEPTEMBER 16-18.
1960-61
MAXIMUM 34 SECOND-FEET NOVEMBER 5. (GAGE HEIGHT 2.32 FEET).
MINIMUM 0.9 SECOND-FEET SEVERAL DAYS.
1923-61
MAXIMUM 8300 SECOND-FEET MARCH 2, 1938, BY SLOPE-AREA METHOD.
MINIMUM 0.7 SECOND-FOOT NOVEMBER 5, 1951.

REMARKS: RECORDS GOOD. NO DIVERSIONS ABOVE STATION.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH. FIFTY-FOUR DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

7SDT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U14-R

Daily discharge, in second-feet of BIG ROCK CREEK above Mouth of Canyon for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	2.8	2.6	2.6	4.1	4.8	4.6	4.1	3.2	2.0	1.8	1.6
2	2.5	2.8	2.6	2.6	4.6	4.8	4.3	4.3	3.0	2.0	1.8	1.6
3	2.3	2.6	2.6	2.6	4.6	4.8	4.3	4.6	2.8	2.0	1.8	1.6
4	2.3	2.6	2.6	2.6	4.6	4.8	4.1	4.6	2.8	2.0	1.8	1.6
5	2.3	2.6	2.6	2.6	4.6	4.8	4.1	4.6	2.8	2.0	1.8	1.6
6	2.3	2.6	2.5	2.6	4.3	4.6	4.1	4.6	2.8	1.7	1.7	1.4
7	2.3	2.6	2.5	2.6	4.3	4.8	4.1	4.3	2.6	1.7	1.7	1.4
8	2.3	2.5	2.5	2.6	4.1	4.6	4.1	4.1	2.6	1.7	1.7	1.4
9	2.3	2.5	2.5	2.6	4.3	4.8	4.1	3.8	2.6	1.7	1.7	1.4
10	2.3	2.5	2.5	3.2	4.8	5.1	4.1	3.8	2.6	1.7	1.7	1.6
11	2.3	2.5	2.5	3.2	4.8	5.1	4.1	3.8	2.6	1.7	1.7	1.7
12	2.3	2.5	2.5	4.6	4.8	4.8	4.1	3.8	2.6	1.7	1.7	1.7
13	2.2	2.3	2.5	3.4	4.8	4.8	4.1	3.8	2.6	1.7	1.7	1.6
14	2.2	2.3	2.5	3.2	4.8	4.8	4.1	3.8	2.5	1.6	1.7	1.4
15	2.3	2.3	2.5	3.2	4.8	4.8	4.1	3.8	2.5	1.6	1.7	1.4
16	2.3	2.3	2.5	3.0	4.6	4.8	4.1	3.8	2.5	1.6	1.7	1.3
17	2.3	2.2	2.5	3.0	4.6	4.8	4.1	3.8	2.5	1.6	1.7	1.3
18	2.3	2.2	2.5	3.0	4.6	4.6	3.8	3.8	2.5	1.6	1.6	1.3
19	2.5	2.2	2.5	3.0	4.8	4.6	3.8	3.8	2.5	1.6	1.6	1.4
20	2.5	2.3	2.5	3.2	4.8	4.6	3.8	3.8	2.5	1.7	1.6	1.4
21	2.5	2.3	2.5	3.2	4.8	4.6	3.8	3.8	2.2	1.7	1.6	1.6
22	2.5	2.5	2.5	3.2	4.8	4.6	3.8	3.8	2.2	1.7	1.6	1.6
23	2.5	2.5	2.5	3.2	4.8	4.6	3.8	3.8	2.0	1.7	1.6	1.6
24	2.5	2.3	3.0	3.2	4.8	4.6	3.8	3.8	2.0	1.8	1.6	1.6
25	2.5	2.3	2.6	3.4	4.8	4.6	3.8	3.6	1.8	1.8	1.7	1.6
26	2.5	2.3	2.6	3.4	4.8	4.6	3.8	3.6	1.8	1.8	1.7	1.6
27	2.5	2.5	2.6	3.8	4.8	4.6	4.6	3.4	2.0	1.8	1.7	1.6
28	2.6	2.3	2.5	4.1	4.8	4.6	4.3	3.4	2.0	1.8	1.6	1.6
29	2.6	2.5	2.5	4.1	5.1	4.6	4.1	3.2	2.0	1.8	1.6	1.6
30	2.6	2.5	2.5	4.1		4.6	4.1	3.2	2.0	1.8	1.6	1.6
31	2.6		2.6	4.1		4.6		3.2		1.8	1.6	
	74.4	73.2	78.9	99.2	135.8	146.6	121.9	119.6	73.1	54.4	52.1	45.7
MEAN	2.40	2.44	2.55	3.20	4.68	4.73	4.06	3.86	2.44	1.75	1.68	1.52
ACRE-FEET	148.	145.	156.	197.	269.	291.	242.	237.	145.	108.	103.	91.

Remarks:

YEAR OR PERIOD MEAN 2.94
ACRE-FEET 2,130

74D74M Cib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U114-R

Daily discharge, in second-feet of BIG ROCK CREEK above Mouth of Canyon, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.6	1.7	2.6	3.4	3.8	3.6	3.2	2.6	2.0	1.3	1.1	1.0
2	1.6	1.8	2.8	3.4	3.6	3.6	3.0	2.6	2.0	1.3	1.2	1.0
3	1.4	2.6	2.8	3.4	3.6	3.6	3.0	2.6	2.0	1.3	1.2	1.0
4	1.3	2.5	2.8	3.4	3.4	3.6	3.0	2.6	2.0	1.3	1.2	1.0
5	1.4	7.2	2.8	3.2	3.4	3.4	3.0	2.6	2.0	1.3	1.2	0.9
6	1.4	20	2.8	3.2	3.4	3.4	3.0	2.6	2.0	1.3	1.1	0.9
7	1.3	12	3.0	3.2	3.2	3.4	3.0	2.6	1.8	1.3	1.1	1.0
8	1.4	5.9	3.0	3.2	3.2	3.4	3.0	2.6	1.6	1.2	1.0	1.0
9	1.6	4.3	3.2	3.2	3.2	3.4	3.0	2.6	1.6	1.1	1.0	1.0
10	1.7	4.3	3.2	3.2	3.2	3.2	3.0	2.6	1.8	1.1	1.0	1.0
11	1.7	4.1	3.0	3.2	3.2	3.2	3.0	2.6	1.8	1.1	1.0	1.0
12	1.7	3.8	3.0	3.2	3.2	3.2	3.0	2.6	1.8	1.1	1.0	1.0
13	1.6	3.6	3.0	3.2	3.2	3.2	3.0	2.6	1.7	1.1	1.0	1.0
14	1.6	3.4	3.0	3.4	3.2	3.2	3.0	2.6	1.7	1.1	0.9	1.0
15	1.6	3.4	3.0	3.4	3.2	3.4	3.0	2.6	1.7	1.1	0.9	1.0
16	1.4	3.2	3.0	3.4	3.2	3.2	3.0	2.6	1.7	1.1	0.9	1.0
17	1.6	3.0	3.0	3.4	3.2	3.2	2.8	2.6	1.6	1.1	0.9	1.1
18	1.6	2.8	3.0	3.4	3.2	3.2	2.8	2.6	1.6	1.1	0.9	1.1
19	1.6	2.6	3.0	3.4	3.4	3.2	2.8	2.6	1.4	1.1	1.0	1.1
20	1.4	2.5	3.0	3.4	3.4	3.2	3.0	2.6	1.4	1.1	1.0	1.1
21	1.4	2.3	3.0	3.2	3.4	3.2	3.0	2.6	1.4	1.1	2.6	1.0
22	1.4	2.2	3.0	3.2	3.4	3.2	3.0	2.5	1.3	1.1	1.2	1.0
23	1.4	2.2	3.2	3.2	3.4	3.2	3.0	2.5	1.2	1.1	1.2	1.0
24	1.4	2.2	3.2	3.2	3.5	3.2	3.2	2.5	1.2	1.1	1.1	1.0
25	1.6	2.2	3.2	3.2	3.6	3.2	3.2	2.5	1.2	1.1	1.0	1.0
26	1.6	2.5	3.4	4.1	3.6	3.2	3.0	2.3	1.2	1.1	1.0	1.0
27	1.6	2.5	3.4	3.8	3.6	3.2	2.8	2.3	1.2	1.1	1.0	1.0
28	1.6	2.3	3.4	3.6	3.6	3.4	2.8	2.3	1.3	1.1	1.0	1.0
29	1.6	2.2	3.6	3.8		3.2	2.6	2.2	1.3	1.1	1.0	1.0
30	1.7	2.3	3.6	3.8		3.2	2.6	2.2	1.3	1.1	1.0	1.0
31	1.7		3.4	3.8		3.2		2.2		1.1	1.0	
	47.5	117.6	95.4	105.1	94.6	102.2	88.8	77.8	48.2	35.6	33.7	30.2
MEAN	1.53	3.92	3.08	3.39	3.38	3.30	2.96	2.51	1.61	1.15	1.09	1.01
ACRE-FEET	94.	233.	189.	208.	188.	203.	176.	154.	96.	71.	67.	60.

Remarks:

YEAR OR PERIOD MEAN 2.40
ACRE-FEET 1740.

STATION F111C-R
BIG TUJUNGA CREEK below Mill Creek

LOCATION: WATER-STAGE RECORDER, LAT. 34°18'33", LONG. 118°08'40", ON LEFT (EAST) BANK ABOUT 500 FEET BELOW JUNCTION WITH MILL CREEK. ELEVATION OF GAGE ABOUT 2650 FEET. FORMER STATIONS F111-R AND F111B-R WERE LOCATED ABOUT 1.3 MILES DOWNSTREAM.

DRAINAGE AREA: 64.9 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - GRAVEL AND BOULDERS. BED ROCK CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR AT STATION.

RECORDER: A STEVENS A-35 RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATIONS: NONE.

DIVERSIONS: NONE

RECORDS AVAILABLE:
AT STATION F111-R - NOVEMBER 30, 1930 TO AUGUST 17, 1932.
AT STATION F111B-R - SEPTEMBER 15, 1932 TO MAY 18, 1950.
AT STATION F111C-R - JANUARY 16, 1948 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 13.2 SECOND-FEET JANUARY 10.
MINIMUM NO FLOW PART OF YEAR.
1960-61
MAXIMUM 81.8 SECOND-FEET NOVEMBER 6.
MINIMUM NO FLOW PART OF YEAR.
1930-61 (STATIONS F111-R, F111B-R AND F111C-R).
MAXIMUM DISCHARGE NOT DETERMINED MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD 14800 SECOND-FEET JANUARY 23, 1943.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE U.S.G.S. WATER RESOURCES BRANCH.

76D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F111C-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Mill Creek, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.4	0.6	1.1	2.3	4.2	2.0	2.2	0.3	0	0	0
2	0.2	0.4	0.6	1.1	4.8	3.0	1.8	2.1	0.2	0	0	0
3	0.2	0.6	0.7	1.0	3.1	2.6	1.7	2.1	0.2	0	0	0
4	0.2	0.6	0.7	1.0	2.8	2.6	1.5	2.2	0.2	0	0	0
5	0.2	0.4	0.6	1.0	2.7	2.5	1.4	2.0	0.2	0	0	0
6	0.2	0.4	0.6	1.0	2.6	2.5	1.3	1.5	0.2	0	0	0
7	0.2	0.4	0.7	1.0	2.6	2.5	1.3	1.3	0.2	0	0	0
8	0.2	0.4	0.7	1.1	2.6	2.5	1.4	1.1	0.2	0	0	0
9	0.2	0.4	0.8	1.1	2.8	2.5	1.4	0.9	0.1	0	0	0
10	0.2	0.4	0.9	4.2	2.5	2.4	1.4	0.7	0.1	0	0	0
11	0.2	0.4	0.8	4.2	2.4	2.4	1.4	0.6	+	0	0	0
12	0.2	0.4	0.8	6.8	2.2	2.4	1.4	0.6	|	0	0	0
13	0.1	0.4	0.8	3.1	2.2	2.4	1.4	0.6	|	0	0	0
14	0.1	0.4	0.8	2.6	2.2	2.2	1.3	0.8	|	0	0	0
15	0.1	0.6	0.8	2.6	2.0	2.1	1.3	1.0	|	0	0	0
16	0.1	0.6	0.8	2.2	2.0	2.1	1.3	1.0	|	0	0	0
17	0.2	0.6	0.8	1.9	2.0	2.0	1.2	1.0	+	0	0	0
18	0.2	0.6	0.8	1.8	2.0	1.9	1.2	0.9	0	0	0	0
19	0.2	0.6	0.8	1.8	2.0	1.9	1.2	0.6	0	0	0	0
20	0.2	0.6	0.8	1.8	2.0	1.9	1.0	0.6	0	0	0	0
21	0.2	0.6	1.1	1.7	2.1	1.9	0.9	0.6	0	0	0	0
22	0.2	0.6	1.0	1.7	2.1	1.9	1.2	0.6	0	0	0	0
23	0.2	0.6	1.0	1.7	2.1	1.9	1.6	0.7	0	0	0	0
24	0.2	0.6	2.7	1.7	2.1	1.9	1.9	0.9	0	0	0	0
25	0.2	0.6	1.7	2.2	2.1	1.9	1.8	0.8	0	0	0	0
26	0.3	0.6	1.3	2.2	2.1	1.9	1.8	0.6	0	0	0	0
27	0.4	0.6	1.2	2.1	2.2	2.0	7.4	0.4	0	0	0	0
28	0.4	0.6	1.1	2.0	2.4	2.2	6.4	0.3	0	0	0	0
29	0.4	0.6	1.0	1.9	4.3	2.1	3.2	0.3	0	0	0	0
30	0.4	0.6	1.0	1.8		2.0	2.6	0.4	0	0	0	+
31	0.4		1.1	1.8		2.0		0.3		0	0	
	6.9		29.1		71.3		56.7		1.9		0	
		15.6		63.2		70.3		29.7		0		+
MEAN	0.22	0.52	0.94	2.04	2.46	2.27	1.89	0.96	0.06	0	0	+
ACRE-FEET	14.	31.	58.	125.	141.	139.	112.	59.	3.8	0	0	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.94
ACRE-FEET 683.

76D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

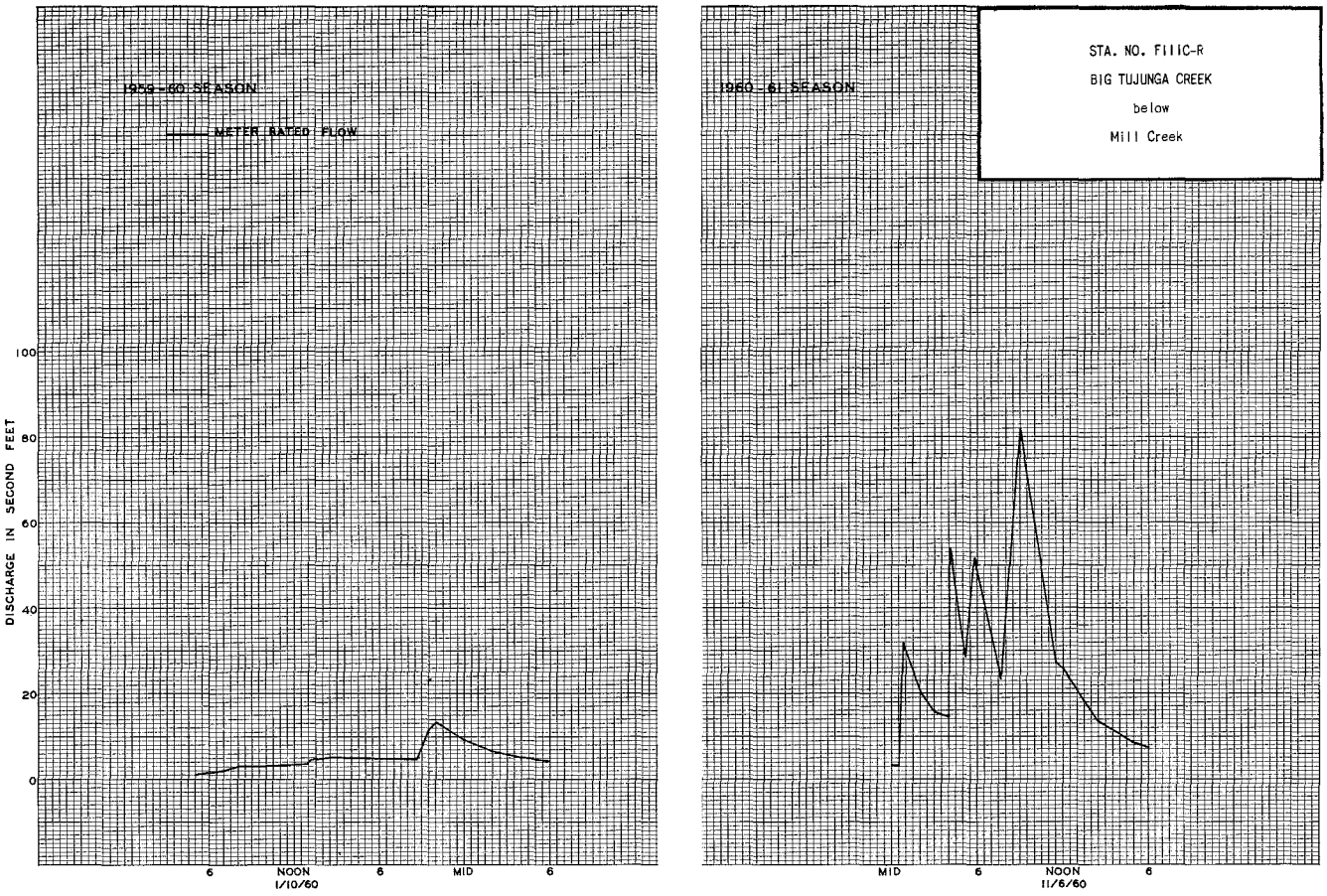
Sta. No. 111C-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Mill Creek, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.1	0.8	0.9	1.6	1.1	1.2	0.4	0.4	0	0	0
2	|	0.2	1.1	0.9	1.6	1.1	1.0	0.4	0.4	0	0	0
3	|	0.8	0.9	0.9	1.6	1.1	0.9	0.6	0.3	0	0	0
4	|	0.7	0.8	0.9	1.6	1.1	0.8	0.6	0.2	0	0	0
5	|	3.5	0.8	0.9	1.6	1.2	0.9	0.6	0.2	0	0	0
6	|	2.3	0.8	0.9	1.5	1.2	1.0	0.6	0.2	0	0	0
7	|	2.0	0.8	0.9	1.5	1.2	1.0	0.6	0.2	0	0	0
8	|	1.0	0.8	0.9	1.5	1.2	0.9	0.4	0.2	0	0	0
9	|	0.7	0.8	1.0	1.4	1.2	0.9	0.3	0.2	0	0	0
10	|	0.6	0.8	1.0	1.4	1.2	0.8	0.3	0.2	0	0	0
11	|	0.6	0.8	1.0	1.4	1.2	0.8	0.4	0.2	0	0	0
12	|	0.8	0.8	1.0	1.4	1.1	0.7	0.4	0.2	0	0	0
13	|	1.2	0.8	1.0	1.4	1.1	0.7	0.4	0.1	0	0	0
14	|	0.7	0.8	1.0	1.4	1.1	0.6	0.4	0.1	0	0	0
15	|	0.6	0.9	1.0	1.4	1.6	0.6	0.3	+	0	0	0
16	|	0.6	0.9	0.9	1.4	1.6	0.6	0.4	|	0	0	+
17	|	0.4	0.9	1.0	1.4	1.4	0.4	0.3	|	0	0	|
18	|	0.4	0.9	1.0	1.3	1.4	0.4	0.3	|	0	0	|
19	|	0.4	0.9	1.0	1.2	1.4	0.5	0.4	|	0	0	|
20	|	0.4	0.9	0.9	1.2	1.4	0.6	0.4	|	0	0	|
21	|	0.4	0.9	0.9	1.2	1.4	0.6	0.3	|	0	0	|
22	|	0.4	0.9	0.9	1.2	1.4	0.9	0.3	+	0	0	|
23	|	0.4	0.9	0.9	1.2	1.4	0.9	0.3	0	0	0	|
24	|	0.4	0.9	1.0	1.2	1.5	0.8	0.3	0	0	0	|
25	|	0.6	0.9	1.1	1.2	1.7	0.8	0.3	0	0	0	+
26	|	0.9	0.9	7.2	1.2	1.5	0.7	0.3	0	0	0	0
27	|	1.0	0.9	5.3	1.1	1.4	0.6	0.3	0	0	0	0
28	|	0.8	0.9	2.8	1.1	1.4	0.6	0.4	0	0	0	0
29	|	0.7	0.9	2.1		1.4	0.6	0.4	0	0	0	0
30	+	0.7	0.9	1.8		1.3	0.4	0.3	0	0	0	0
31	0.1		0.9	1.6		1.3		0.4		0	0	
	0.1		26.9		38.2		22.3		3.1		0	
		45.0		44.6		40.6		12.1		0		+
MEAN	+	1.50	.87	1.44	1.36	1.31	0.74	0.39	0.10	0	0	+
ACRE-FEET	0.2	89.	53.	88.	76.	81.	44.	24.	6.2	0	0	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN .64
ACRE-FEET 461.



STATION F168-R
BIG TUJUNGA CREEK below Big Tujunga Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°17'20", LONG. 118°11'38", ON THE RIGHT (NORTHWEST) BANK, 2800 FEET BELOW BIG TUJUNGA DAM AND ABOUT 12 MILES NORTHEAST OF SUNLAND. ELEVATION OF ZERO GAGE HEIGHT, 2063.34 FEET.

DRAINAGE AREA: 82.7 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND BOULDERS.. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM CABLE CAR AT STATION.

RECORDER: AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW REGULATED BY BIG TUJUNGA DAM.

DIVERSIONS: NONE.

RECORDS AVAILABLE: STREAM MEASUREMENTS FROM DECEMBER 8, 1931 TO NOVEMBER 7, 1932 AND JANUARY 20, 1938 TO MAY 29, 1938; RECORDER RECORDS FROM NOVEMBER 8, 1932 TO JANUARY 13, 1938 AND FROM MAY 31, 1938 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 6.5 SECOND-FEET JUNE 2.
MINIMUM PLUS FLOW VARIOUS TIMES
1960-61
MAXIMUM 11.1 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW VARIOUS TIMES.
1932-61
MAXIMUM 33,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES IN 1936 AND 1961.

ACCURACY: GOOD FOR LOW FLOWS AND FAIR FOR HIGH FLOWS.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F168-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Big Tujunga Dam, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.8	3.3	0.8	0.8	1.0	0.1	0.1	1.3	5.6	5.8	2.0	1.0
2	4.8	3.3	0.8	0.8	1.0	0.1	0.1	1.3	6.5	5.8	2.0	1.0
3	4.8	3.3	0.8	0.8	1.0	0.1	0.1	2.1	6.5	5.5	2.0	1.0
4	4.8	3.0	0.8	1.0	1.0	0.1	0.1	3.3	6.5	5.5	2.0	1.0
5	4.8	3.0	0.8	1.0	1.0	0.1	0.1	3.3	6.5	5.5	2.0	1.0
6	4.8	3.0	0.8	1.0	1.0	0.1	0.1	3.3	6.2	5.5	2.0	1.0
7	4.8	3.0	0.8	1.0	1.0	0.1	0.1	3.3	6.2	5.5	2.0	1.0
8	4.5	3.0	0.8	1.0	1.0	0.1	0.4	3.3	6.2	5.5	2.0	1.0
9	3.8	2.7	0.8	1.0	0.8	0.1	1.0	3.0	6.2	5.5	2.0	1.0
10	3.0	2.7	0.8	1.2	0.2	0.1	1.0	3.0	6.2	5.5	2.0	1.0
11	3.0	2.7	0.8	1.2	0.1	0.1	1.0	3.0	6.2	5.5	2.0	1.0
12	3.0	2.7	0.8	1.0	0.1	0.1	1.0	3.0	6.2	5.5	2.0	1.0
13	3.0	2.7	0.8	0.8	0.1	0.1	1.0	3.6	6.2	5.5	2.0	1.0
14	3.0	2.7	0.8	0.8	0.1	0.1	1.0	4.5	6.2	5.5	2.0	1.0
15	3.0	2.7	0.8	0.8	0.1	0.1	1.0	4.5	6.2	5.5	2.0	1.0
16	3.0	2.7	0.8	0.8	0.1	0.1	1.0	4.5	6.2	5.5	2.0	1.0
17	3.0	2.7	0.8	1.0	0.1	0.1	1.0	4.5	5.8	5.2	2.0	1.0
18	3.0	2.7	0.8	1.0	0.1	0.1	1.0	4.8	5.8	4.8	2.0	1.0
19	3.0	2.7	0.8	1.0	+	0.1	1.0	4.8	5.8	5.2	1.6	1.0
20	3.0	1.6	0.8	1.0	+	0.1	1.0	4.8	5.8	5.5	1.2	1.0
21	3.0	1.0	0.8	1.0	+	0.1	1.0	4.8	5.8	5.2	1.2	1.0
22	3.0	1.0	0.8	1.0	0.1	0.1	1.0	4.8	5.8	5.5	1.2	1.0
23	3.0	1.0	0.8	1.0	0.1	0.1	1.0	4.8	5.8	6.2	1.2	1.0
24	3.0	1.0	1.2	1.0	0.1	0.1	1.0	4.8	5.8	6.2	1.2	1.0
25	3.0	1.0	1.0	1.0	0.1	0.1	1.0	4.8	5.8	6.2	1.2	1.0
26	3.3	1.0	1.0	1.0	0.1	0.1	1.2	4.8	5.8	6.2	1.2	1.0
27	3.3	1.0	0.8	1.0	0.1	0.1	1.5	4.8	5.8	4.2	1.2	1.0
28	3.3	1.0	0.8	1.0	0.2	0.1	1.3	4.8	5.8	3.0	1.0	1.0
29	3.3	1.0	0.8	1.0	0.3	0.1	1.3	4.8	5.8	2.6	1.0	1.0
30	3.3	1.0	0.8	1.0		0.1	1.3	4.8	5.8	2.0	1.0	1.0
31	3.3		0.8	1.0		0.1		4.8		2.0	1.0	
	109.7		25.6		10.9		24.7		181.0		51.2	
		66.2		30.0		3.1		122.0		158.6		30.0
MEAN	3.54	2.21	0.83	0.97	0.38	0.10	0.82	3.94	6.03	5.12	1.65	1.0
ACRE-FEET	218.	131.	51.	60.	22.	6.0	49.	242.	359.	315.	102.	60.0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 2.22
ACRE-FEET 1620.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F 166-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK below Big Tujunga Dam, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	0.6	0.6	0.7	0.2	0	0	0	2.2	2.0	1.8	2.0
2	1.0	0.6	1.0	0.8	0.1	0	0	0	2.0	2.0	1.8	2.0
3	1.0	1.7	0.7	0.8	0.1	0	0	0	1.3	2.0	1.8	2.0
4	0.7	1.2	0.7	0.8	0.1	0	0	0	1.2	1.8	e 1.8	2.0
5	c 0.6	2.4	0.7	0.8	0.1	0	0	0	1.6	1.8	1.8	2.0
6	0.6	2.6	0.7	0.7	0.1	0	0	0	2.0	1.8	1.8	2.0
7	0.6	1.2	0.7	0.7	+	0	0	0	2.0	1.8	1.8	2.0
8	0.6	1.0	0.7	0.7		0	0	0	2.0	1.8	e 1.8	2.0
9	0.6	0.8	0.7	0.7		0	0	0	2.0	1.8	1.8	2.0
10	0.4	0.7	0.7	0.7		0	0	0	2.0	1.8	1.8	2.0
11	0.4	0.7	0.7	0.7		0	0	0	2.0	1.8	1.8	2.0
12	0.4	1.1	0.7	0.7		0	0	0	2.0	1.8	1.8	1.8
13	0.4	1.0	0.7	0.7		0	0	0	2.0	1.8	1.8	1.8
14	0.4	0.7	0.7	0.7		0	0	0	2.0	1.8	1.8	1.8
15	0.4	0.7	0.7	0.7		0	0	0	2.0	1.8	1.8	1.8
16	0.4	0.6	0.7	0.7		0	0	0.1	2.0	1.8	2.0	1.8
17	0.4	0.6	0.7	0.7		0	0	0.4	2.0	1.8	2.0	1.8
18	0.4	0.7	0.7	0.7		0	0	0.7	2.0	1.8	2.0	1.8
19	0.4	0.7	0.7	0.7		0	0	0.6	2.0	1.8	2.0	1.8
20	0.4	0.7	0.7	0.7		0	0	0.6	2.0	1.8	2.0	1.8
21	0.4	0.7	0.7	0.7	+	0	0	0.8	2.0	1.8	2.0	1.8
22	0.6	0.7	0.7	0.7	0	0	0	0.8	2.0	1.8	2.0	1.8
23	0.6	0.7	0.7	0.7	0	0	0	1.3	2.0	1.8	2.0	1.8
24	0.6	0.7	0.7	0.7	0	0	0	2.0	2.0	1.8	2.0	1.8
25	0.6	0.7	0.7	0.7	0	0	0	2.0	2.0	1.8	2.0	1.8
26	0.6	1.0	0.7	3.4	0	0	0	2.7	2.0	1.8	2.0	1.8
27	0.6	0.7	0.7	0.8	0	0	0	4.6	2.0	1.8	2.0	1.8
28	0.6	0.6	e 0.7	0.8	0	0	0	4.6	2.0	1.8	2.0	1.8
29	0.6	0.6	0.7	0.8		0	0	3.3	2.0	1.8	2.0	1.8
30	0.6	0.6	0.7	0.7		0	0	2.2	2.0	1.8	2.0	1.8
31	0.6		0.7	0.5		0		2.2		1.8	2.0	
	17.5		21.9		0.7		0		58.3		59.0	
		27.3		24.9		0		29.3		56.4		56.2
MEAN	0.56	0.91	0.71	0.80	0.02	0	0	0.94	1.94	1.82	1.90	1.87
ACRE-FEET	35.	54.	43.	49.	0.14	0	0	58.	116.	112.	117.	111.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.96
ACRE-FEET 695.

STATION F213-R
BIG TUJUNGA CREEK above Gold Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°18'02", LONG. 118°16'02", ON THE LEFT (SOUTH) BANK TWO MILES ABOVE MOUTH OF CANYON SEVEN MILES BELOW BIG TUJUNGA DAM AND ABOUT FOUR MILES NORTHEAST OF SUNLAND. ELEVATION OF ZERO GAGE HEIGHT, 1571.80 FEET. THE FORMER STATION U11-R WAS ABOUT 1000 FEET UPSTREAM AT THE LOCATION OF A PARTLY CONSTRUCTED AND ABANDONED SUBMERGED DAM.

DRAINAGE AREA: 106 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL COMPOSED OF GRAVEL AND BOULDERS. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM CABLE CAR 90 FEET BELOW STATION.

RECORDER: AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW FROM 82.3 SQUARE MILES REGULATED BY BIG TUJUNGA DAM. FLOW FROM 23.7 SQUARE MILES UNREGULATED.

DIVERSIONS: THERE ARE SEVERAL SMALL IRRIGATION DIVERSIONS ABOVE THE STATION.

RECORDS AVAILABLE: OCTOBER 1, 1932 TO SEPTEMBER 30, 1961. (RECORDS AT U.S.G.S. STATION, TUJUNGA CREEK, NEAR SUNLAND, ARE AVAILAELE FROM OCTOBER 1, 1916 TO SEPTEMBER 30, 1932 IN WATER SUPPLY PAPERS.)

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 22 SECOND-FEET JANUARY 12.
MINIMUM PLUS FLOW SEPTEMBER 6.
1960-61
MAXIMUM 85.7 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW OCTOBER 6.
1916-1961
MAXIMUM 50,000 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW OCTOBER 6, 1960.

ACCURACY: GOOD.

OPERATION: CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE U.S.G.S. WATER RESOURCES BRANCH.

56D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F213-R

Daily discharge, in second-feet of BIG TUJUNGA CREEK above Gold Canyon, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.7	3.4	1.4	1.6	3.4	3.8	1.3	2.8	4.7	4.7	2.1	0.4
2	4.7	3.4	1.3	1.8	4.2	3.2	0.8	2.6	5.0	4.7	1.9	0.5
3	4.4	3.4	1.3	1.8	3.6	2.8	0.8	2.8	5.6	4.7	1.8	0.4
4	4.7	3.4	1.3	1.9	3.4	2.8	0.7	4.0	5.6	4.7	1.8	0.3
5	4.7	3.0	1.1	1.9	3.2	2.8	0.7	4.2	5.6	4.4	1.6	0.3
6	4.7	3.0	1.3	1.9	3.2	2.8	0.7	3.8	5.6	4.4	1.4	0.2
7	5.0	3.2	1.3	1.8	3.2	2.6	0.8	2.6	5.9	4.4	1.1	0.4
8	5.0	3.2	1.4	1.8	3.6	2.6	1.0	2.6	5.9	4.4	1.1	0.4
9	4.4	3.2	1.4	1.9	5.6	2.6	0.8	2.8	5.9	4.4	1.1	0.2
10	3.6	3.2	1.6	5.1	3.8	2.6	0.8	2.8	5.9	4.4	1.6	0.2
11	3.0	3.2	1.6	6.2	2.6	2.6	1.0	2.8	5.9	4.4	1.4	0.1
12	3.0	3.0	1.6	12	2.4	2.6	1.0	2.8	5.9	4.4	0.8	0.2
13	2.8	3.2	1.4	5.6	2.4	2.4	1.0	3.2	5.6	4.4	0.8	0.1
14	2.8	3.2	1.3	4.7	2.4	2.2	1.0	4.0	5.6	4.4	1.0	0.2
15	2.8	2.8	1.1	5.0	2.2	2.1	1.0	5.0	5.9	4.2	1.0	0.2
16	2.6	2.8	1.1	4.2	2.1	2.1	1.0	5.3	5.9	4.2	1.1	0.3
17	2.1	2.8	a 1.1	4.0	1.9	1.8	1.0	5.3	5.0	4.7	1.1	0.3
18	1.6	2.8	1.1	3.6	1.8	1.6	0.8	5.0	4.7	5.3	1.1	0.2
19	1.6	2.8	1.2	3.0	1.8	1.4	0.6	5.0	4.4	5.3	1.0	0.2
20	3.0	2.6	1.3	2.8	1.8	1.3	0.5	5.0	4.4	5.3	1.0	0.2
21	3.2	2.1	1.4	2.6	1.8	1.3	0.6	5.0	4.4	5.3	1.0	0.3
22	2.8	1.6	1.5	2.1	1.9	1.3	0.8	5.0	4.4	5.3	1.0	0.4
23	2.8	1.4	1.6	2.1	1.9	1.4	1.4	5.0	4.4	5.3	1.0	0.4
24	2.8	1.4	a 4.0	2.1	1.8	1.6	1.4	5.0	4.4	5.0	1.0	0.3
25	2.8	1.4	2.8	2.8	1.8	1.6	1.4	5.0	4.4	5.0	0.7	0.3
26	3.0	1.4	2.1	3.8	1.8	1.6	1.8	5.0	4.2	5.0	0.7	0.3
27	3.2	1.4	1.9	3.2	1.9	1.6	6.2	5.0	4.7	4.4	0.6	0.3
28	3.2	1.4	1.9	2.8	2.1	2.2	6.0	5.0	4.7	2.8	0.5	0.3
29	3.2	1.4	1.6	2.8	3.2	1.9	4.2	5.0	5.0	2.4	0.5	0.3
30	3.2	1.4	1.6	2.6		1.9	3.6	5.0	5.0	2.2	0.5	0.5
31	3.2		1.6	2.8		1.6		4.4		2.2	0.4	
	104.6	76.5	48.2	102.3	76.8	66.7	44.7	128.8	154.6	136.7	33.7	8.7
MEAN	3.37	2.55	1.55	3.30	2.65	2.15	1.49	4.15	5.15	4.41	1.09	0.29
ACRE-FEET	207.	152.	96.	203	152.	132.	89.	255.	307.	271.	67.	17.

Remarks:

YEAR OR PERIOD MEAN 2.68
ACRE-FEET 1950.

76D74M C2b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

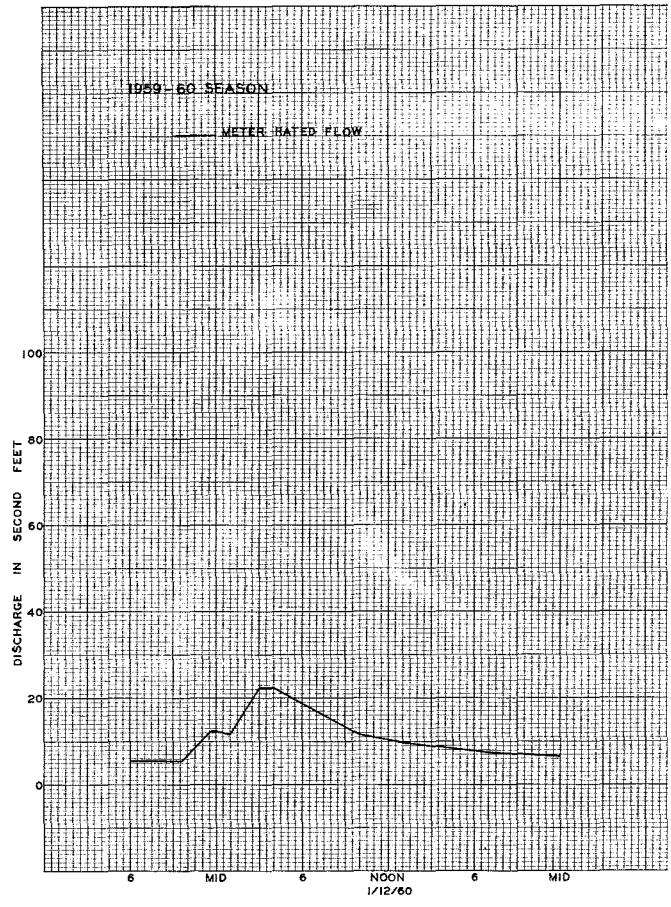
Sta. No. 213-R

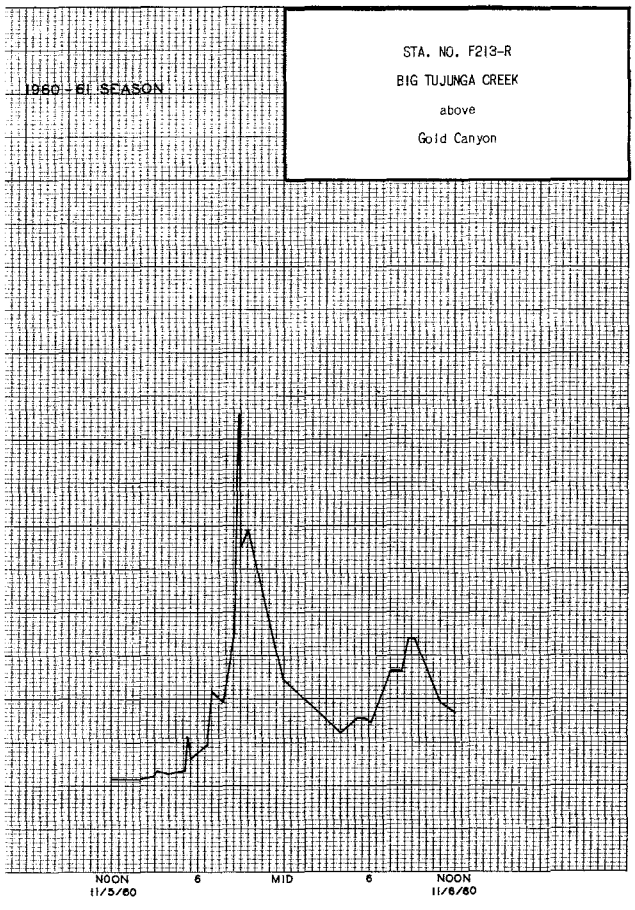
Daily discharge, in second-feet of BIG TUJUNGA CREEK above Gold Canyon for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.4	2.1	1.8	2.6	1.0	1.1	0.6	0.8	1.1	1.0	1.0
2	0.6	0.4	3.6	1.8	2.6	1.0	0.7	0.6	0.8	1.1	1.0	1.0
3	0.3	1.3	3.0	1.8	2.2	1.0	0.7	0.6	0.8	1.1	1.0	1.0
4	0.3	1.6	2.6	1.8	2.1	1.0	0.8	0.6	0.8	1.1	1.0	1.0
5	0.3	10.0	2.4	1.8	2.1	1.1	0.8	0.6	0.8	1.1	1.0	1.0
6	0.3	16.0	1.8	1.8	1.9	1.1	0.8	0.6	1.0	1.1	1.0	1.0
7	0.2	5.9	1.8	1.8	1.9	1.1	0.8	0.6	1.0	1.1	1.0	1.0
8	0.4	4.2	1.9	1.8	1.8	1.1	0.7	0.6	1.0	1.1	1.0	1.0
9	0.5	3.2	1.9	1.8	1.8	1.1	0.7	0.5	1.1	1.1	1.0	1.0
10	0.7	2.4	1.9	1.8	1.8	1.1	0.6	0.5	1.1	1.1	1.0	1.0
11	0.5	2.1	1.9	1.8	1.8	1.1	0.6	0.5	1.1	1.1	1.0	1.0
12	0.5	2.7	1.8	1.8	1.6	1.0	0.6	0.5	1.1	1.1	1.0	1.0
13	0.4	4.3	1.8	1.8	1.6	1.0	0.6	0.5	1.1	1.1	1.0	1.0
14	0.3	2.8	1.8	1.8	1.6	0.8	0.6	0.5	1.1	1.1	1.0	0.8
15	0.2	2.2	1.8	1.8	1.6	1.0	0.6	0.5	1.1	1.1	1.0	0.8
16	0.3	1.9	1.8	1.8	1.6	1.0	0.6	0.5	1.1	1.1	1.0	1.0
17	0.6	1.6	1.8	1.8	1.6	1.0	0.6	0.5	1.1	1.0	1.0	1.3
18	0.6	1.4	1.8	1.8	1.4	0.7	0.6	0.5	1.1	1.0	1.0	1.3
19	0.5	1.1	1.8	1.8	1.3	0.7	0.5	0.4	1.1	1.0	1.0	1.3
20	0.4	1.1	1.8	1.8	1.3	0.8	0.5	0.4	1.1	1.0	1.0	1.3
21	0.3	1.1	1.8	1.8	1.1	0.8	0.6	0.4	1.1	1.0	1.0	1.4
22	0.3	1.1	1.8	1.9	1.1	0.8	0.6	0.4	1.1	1.0	1.0	1.4
23	0.4	1.1	1.8	1.9	1.1	1.0	0.6	0.4	1.1	1.0	1.0	1.3
24	0.4	1.1	1.9	2.1	1.1	1.0	0.6	0.4	1.1	1.0	1.0	1.1
25	0.5	1.1	1.9	2.1	1.1	1.1	0.6	0.5	1.3	1.0	1.0	1.1
26	0.5	2.6	1.8	11.0	1.1	1.1	0.6	0.4	1.1	1.0	1.0 e	1.1
27	0.5	3.8	1.8	3.2	1.1	1.0	0.6	0.4	1.1	1.0	1.0	1.1
28	0.4	2.8	1.8	2.6	1.1	1.0	0.6	0.4	1.1	1.0	1.0	0.8
29	0.4	2.2	1.8	2.6		0.8	0.6	0.4	1.1	1.0	1.0	0.8
30	0.4	2.1	1.8	2.8		1.0	0.6	0.5	1.1	1.0	1.0 e	0.8
31	0.4		1.8	2.8		1.0		0.5		1.0	1.0	
	12.8	85.6	61.1	70.8	45.0	30.3	19.5	15.3	31.2	32.6	31.0	31.7
MEAN	0.41	2.84	1.97	2.29	1.61	0.98	0.65	0.49	1.04	1.05	1.00	1.06
ACRE-FEET	25.	170.	121.	140.	89.	60.	39.	30.	62.	65.	62.	63.

Remarks:

YEAR OR PERIOD MEAN 1.28
ACRE-FEET 926.





STATION E20C-R
TUJUNGA WASH above Glenoaks Boulevard

LOCATION: WATER STAGE RECORDER. LAT. 34°15'10", LONG. 118°23'20" ON THE (EAST) BANK OF OUTLET CHANNEL OF HANSEN DAM 0.1 MILE ABOVE GLEN OAKS BOULEVARD. ALTITUDE OF GAGE 943.32 FEET.

DRAINAGE AREA: 148 SQUARE MILES.

RECORDS AVAILABLE: AUGUST 1940 TO SEPTEMBER 1961. APRIL 1932 TO SEPTEMBER 1940 (FRAGMENTARY).

EXTREMES OF DISCHARGE:

1959-60
MAXIMUM 1.8 SECOND-FEET APRIL 26, (GAGE HEIGHT 1.00 FEET).
MINIMUM DAILY DISCHARGE, NO FLOW DURING MOST OF YEAR.

1960-61
MAXIMUM 4.2 SECOND-FEET NOVEMBER 5, (GAGE HEIGHT, 1.02 FEET).
MINIMUM DAILY DISCHARGE, NO FLOW DURING MOST OF YEAR.

1940-61
MAXIMUM ABOUT 3000 SECOND-FEET JANUARY 24, 25, 1952. 54,000 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM DAILY DISCHARGE, NO FLOW DURING PARTS OF EACH YEAR.

REMARKS: RECORDS GOOD. ALL FLOW FROM LOCAL DRAINAGE BELOW HANSEN DAM. FLOW REGULATED BY BIG TUJUNGA FLOOD-CONTROL RESERVOIR, (CAPACITY 4240 ACRE-FEET) AND BY HANSEN FLOOD-CONTROL RESERVOIR (CAPACITY 32,000 ACRE-FEET) SEVERAL SMALL DIVERSIONS ABOVE STATION FOR DOMESTIC USE AND IRRIGATION. WATER DIVERTED FROM OUTLET CHANNEL UPSTREAM FROM GAGE TO SPREADING GROUNDS, SOME OF WHICH, IN PAST YEARS, WAS RETURNED TO CHANNEL DOWNSTREAM FROM GAGE.

COOPERATION: RECORDS FURNISHED BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, AND THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

76D74M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E20C-R

Daily discharge, in second-feet of TUJUNGA WASH above Glenoaks Boulevard, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0.2	0	0	0	0	0
27	0	0	0	0	0	0	0.1	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	0	0	0.3	0	0	0	0	0
MEAN	0	0	0	0	0	0	0.01	0	0	0	0	0
ACRE-FEET	0	0	0	0	0	0	0.6	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.001
ACRE-FEET 0.6

7ED7-6M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E20C-R

Daily discharge, in second-feet of TUJUNGA WASH above Glenoaks Boulevard, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0 .2	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0 .2	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0 .3	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0 .1	0	0 .2	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		0		0		0		0		0	
		0 .5		0 .2		0 .3		0		0		0
MEAN	0	0.02	0	0.006	0	0.01	0	0	0	0	0	0
ACRE-FEET	0	1.0	0	0.4	0	0.6	0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.003
ACRE-FEET 2.0

STATION F105B-R
TUJUNGA WASH below Moorpark Street

LOCATION: WATER-STAGE RECORDER, LAT. 34°08'58", LONG. 118°23'28", ON THE RIGHT (WEST) CHANNEL WALL, 1725 FEET ABOVE THE JUNCTION WITH THE LOS ANGELES RIVER. (THE FORMER STATION, F105-R, WAS LOCATED ON THE DOWNSTREAM SIDE OF THE MAGNOLIA AVENUE BRIDGE.) ELEVATION OF ZERO GAGE HEIGHT 577.78 FEET.

DRAINAGE AREA: 223.4 SQUARE MILES BEGINNING 1960; FORMERLY 212. SQUARE MILES.

CHANNEL AND CONTROL: RECTANGULAR CONCRETE 70 FEET WIDE AND 14 TO 14.5 FEET DEEP. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM MOORPARK STREET BRIDGE.

RECORDER: A STEVENS TYPE A-35B RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY BIG TUJUNGA DAM, PACOIMA DAM, LOPEZ DEBRIS DAM, HANSEN DAM, AND PROJECT 85 DIVERSION FROM PACOIMA WAST AT S.P.R.R.

DIVERSIONS: SOME WATER DIVERTED FOR IRRIGATION NEAR MOUTH OF BIG TUJUNGA AND PACOIMA CANYONS AND FOR SPREADING AT MOUTH OF BIG TUJUNGA CANYON BELOW HANSEN DAM AND AT PACOIMA AND BRANFORD SPREADING GROUNDS.

RECORDS AVAILABLE: AUGUST 1930 TO FEBRUARY 17, 1938, OCTOBER 17, 1938 TO MARCH 24, 1949 AND MARCH 22, 1950 TO SEPTEMBER 30, 1961. NO RECORD AVAILABLE FROM MARCH 24, 1949 TO MARCH 22, 1950 DUE TO CHANNEL CONSTRUCTION.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 1430 SECOND-FEET JANUARY 11.
MINIMUM NO FLOW PART OF YEAR.
1960-61
MAXIMUM 1380 SECOND-FEET NOVEMBER 5.
MINIMUM PLUS FLOW PART OF YEAR.
1930-61
MAXIMUM DISCHARGE NOT DETERMINED MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD 3670 SECOND-FEET JANUARY 6, 1959
MINIMUM NO FLOW.

REMARKS: PRIOR TO 1950, DRAINAGE AREA WAS INDETERMINATE DUE TO A NATURAL SPLIT WHICH DIVIDED TUJUNGA WASH INTO TWO BRANCHES, THE CENTRAL BRANCH NOW DRAINS LOCAL DRAINAGE AREA ONLY.

ACCURACY: GOOD, EXCEPT FOR LOW FLOWS.

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

76D74M Glb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F105B-R

Daily discharge, in second-feet of TUJUNGA WASH below Moorpark Street, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	12.8	+	0	0	150	9.3	e 0.1	e 0.1	e 0.2	e 0.3	e 0.2	e +
2	+	0	0	0	5.8	e 0.1	0.1	+	0.2	0.2	0.2	0.1
3		0	0	0	e 0.1	0.1	0.1		0.2	0.2	0.1	
4		0	0	0	0.1	0.1	0.1		0.2	0.2	0.1	+
5		0	0	0	0.1	0.1	+		0.1	0.1	0.1	0.1
6		0	0	0	0.1	0.1			0.1	0.1	0.1	0.1
7		0	0	0	e 0.1	0.1			0.1	0.1	0.1	0.1
8		0	+	0	50	0.1			0.1	0.1	0.1	0.1
9		0	+	2.1	e 0.3	0.1			0.1	0.1	0.1	0.1
10		0	1.0	124	9.7	0.1	+	+	0.1	0.2	0.1	0.1
11		0	+	89	e 0.4	0.1	0.1	0.1	0.1	0.2	0.1	0.1
12		0		85	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.2
13		0		+	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2
14		0		165	0.1	0.1	0.1	0.1	0.1	0.2	+	0.2
15		0	+	33	0.1	0.8	0.1	0.1	0.1	0.2		0.2
16		+	e 0.2	e 1.0	0.1	0.2	0.1	0.1	0.1	0.2		0.2
17			0.1	0.5	0.1	0.3	0.1	0.2	0.1	0.2		0.1
18			0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2		0.1
19			0.1	0.4	0.1	0.2	0.1	0.2	0.1	0.3		0.1
20	+		e 0.1	0.5	0.1	0.3	0.1	0.3	0.1	0.3		0.1
21	e 0.1	+	9.9	0.2	0.1	0.4	0.1	0.2	0.1	0.3		0.1
22	e 0.1	0	e 0.2	e 0.1	0.1	0.5	0.1	0.2	0.1	0.3	+	0.1
23	+	0	e 0.2	+	0.1	0.6	0.1	0.2	0.1	0.3	0.1	0.1
24		0	1.4.8	+	0.1	0.7	0.1	0.3	0.1	0.3	0.1	0.1
25		0	3.9	37	0.1	0.6	e 0.1	0.3	0.1	0.4	0.1	0.1
26		0	e 0.1	e 0.1	0.1	e 0.5	17.4	0.3	0.1	0.5	0.1	0.1
27		0	+	0.1	e 0.1	2.3	1.4.5	0.2	0.1	0.5	0.1	0.1
28		0	0	0.1	17.8	3.8	2.0	0.2	0.2	0.6	0.1	0.1
29		0	0	0.2	58	e 0.4	e 0.1	0.2	0.3	0.5	+	0.1
30		0	0	0.2		e 0.3	e 0.1	0.2	e 0.3	0.4	+	e 0.1
31	+		0	e 0.2		e 0.2		e 0.2		e 0.3	e +	
	130		163.9	294.2		166.5		40		21		
		+		390.4		56.5		4.3		8.2		3.1
MEAN	0.42	+	5.29	12.6	10.1	1.82	5.55	0.14	0.13	0.26	0.07	0.1
ACRE-FEET	26.	+	325.	774.	584.	112.	330.	8.5	7.9	16.	4.2	6.2

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 3.02
ACRE-FEET 2190.

76D74M Glb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

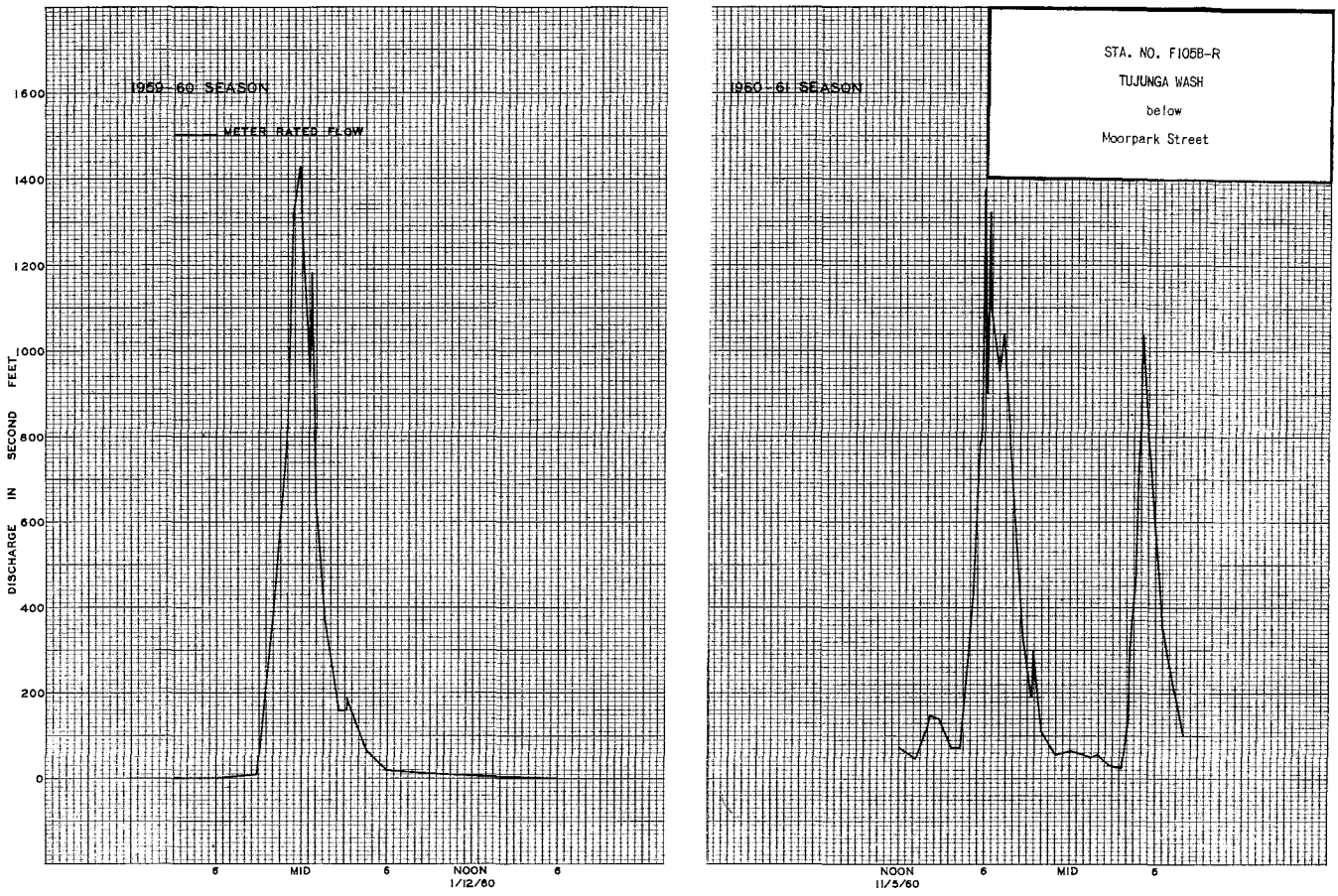
Sta. No. F105B-R

Daily discharge, in second-feet of TUJUNGA WASH below Moorpark Street, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.2	0.2	0.1	0.1	0.2	+	0.1	0.2	0.2	0.3	+	0.2
2	0.2	0.2	13.3	0.1	0.2		0.1	0.2	0.2	0.2		0.1
3	0.2	39	0.1	0.1	0.2		0.1	0.2	0.2	0.2		0.1
4	0.2	0.2	0.1	0.1	0.1		0.1	0.2	0.2	0.2		0.1
5	0.2	174	0.1	0.1	0.1		0.1	0.2	0.2	0.2		0.1
6	0.2	102	0.1	0.1	+	+	6.6	0.2	0.2	0.2	+	0.1
7	0.2	0.2	0.1	0.2		0.1	0.1	0.2	0.2	0.2	0.1	0.1
8	0.2	+	0.1	0.2		0.1	+	0.2	0.2	0.2	0.1	0.1
9	0.2		0.1	0.1		0.1	+	0.2	0.2	0.2	0.1	0.1
10	0.2		0.1	0.1		0.1	0.1	0.2	0.2	0.3	0.1	0.1
11	0.1	+	0.1	0.1		0.1	0.1	0.2	0.2	0.3	d 4.2	0.1
12	0.1	5.6	0.1	e 0.1		0.1	0.1	0.2	0.2	0.3	0.3	0.1
13	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.2	0.3	0.3	0.1
14	0.1	+	0.1	0.1		0.2	0.1	+	0.2	0.2	d 0.3	0.1
15	0.1		0.1	0.1	+	3.2	0.1	0.2	0.3	0.1	0.2	0.1
16	0.1		0.1	0.2	7.4	0.6	0.1	0.2	0.2	0.1	0.1	0.1
17	0.1		0.1	0.1	0.2	0.4	0.1	0.2	0.2	0.2	0.1	0.2
18	0.2		0.1	0.2	0.1	0.4	0.2	0.2	0.2	0.3	0.1	0.1
19	0.2		0.1	0.2	0.1	0.4	0.2	0.2	0.2	0.2	0.1	0.1
20	0.2		0.1	0.1	0.1	0.4	0.2	0.2	0.2	0.2	0.1	0.1
21	0.2		0.1	0.1	0.1	0.4	0.2	0.2	0.2	0.2	0.2	0.1
22	0.2	+	0.2	0.1	0.2	0.4	2.0	0.3	0.1	0.1	0.2	0.1
23	0.2	0.3	0.1	0.2	0.1	0.4	d 0.2	0.3	0.1	0.1	0.2	0.1
24	0.2	+	0.1	0.1	0.1	0.4	0.1	0.1	0.1	0.2	0.2	0.1
25	0.2	+	0.1	14.0	0.1	2.0	0.1	0.2	0.2	0.2	0.2	0.1
26	0.2	94	0.2	216	+	0.1	d 0.1	0.3	0.2	0.2	0.2	0.1
27	0.2	0.1	0.1	2.0	+	+	0.1	0.3	0.2	0.2	0.2	0.1
28	0.2	0.1	0.2	0.5	+		0.1	0.2	0.2	0.3	0.2	0.1
29	0.2	0.1	0.1	0.2			0.1	0.2	0.3	0.1	0.2	0.1
30	0.2	0.1	0.1	1.0			0.1	0.2	0.3	0.1	0.2	0.1
31	0.2		0.1	0.2		+	0.1	0.2	0.3	0.1	0.2	0.1
	5.5		16.6		9.3		29.7		6.1		46.2	
		466.6		236.9		38.8		6.2		6.2		3.2
MEAN	0.18	15.6	0.53	7.64	0.33	1.25	0.99	0.20	0.20	0.20	1.49	0.11
ACRE-FEET	10.9	925.	33.	470.	18.	77.	59.	12.	12.	12.	92.	63.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 2.39
ACRE-FEET 1730.



STATION F32S-R
BRADBURY CHANNEL below Central Avenue

LOCATION: WATER STAGE RECORDER, LAT. 34°08'08", LONG. 117°57'17", ON THE LEFT (EAST) WALL OF BRADBURY CHANNEL 200' DOWNSTREAM FROM THE CENTER-LINE OF CENTRAL AVENUE. ELEVATION OF ZERO GAGE HEIGHT 515.03 FEET.

DRAINAGE AREA: 3.3 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL, RECTANGULAR CONCRETE, 18 FEET WIDE, 12 FEET DEEP.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM FOOTBRIDGE FOUR FEET DOWNSTREAM FROM RECORDER.

RECORDER: A STEVENS TYPE A-35 RECORDER WAS IN SERVICE FROM JUNE 14, 1959 TO SEPTEMBER 30, 1961.

REGULATIONS: TWO DEBRIS BASINS LOCATED UPSTREAM.

RECORDS AVAILABLE: JUNE 14, 1957 TO SEPTEMEER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 40 SECOND-FEET DECEMBER 24.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 60 SECOND-FEET NOVEMBER 3.
MINIMUM NO FLOW AT VARIOUS TIMES.
1957-61
MAXIMUM 1250 SECOND-FEET JANUARY 6, 1959.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD

OPERATION: CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F329-R

Daily discharge, in second-feet of BRADBURY CHANNEL below Central Avenue, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0	0	1.6	0.4	0	+	+	+	+	0
2			0	0	+	0	0					0
3			0	0	0	0	0					0
4			0	0	0	0	0	+				0
5			0	0	0	0	0	0				0
6		+	0	0	0	0	+	+				+
7		0.1	0	0	0	0						
8		+	+	0	0.8	0	+					
9			+	0	+	0	+					
10			0	4.1	0.2	0	0					
11			0	0.9	0	0	+					
12			0	1.0	0	+	+	+				
13			0	+	0	+	+	0.1				
14			0	0.3	0	0	0	0.1	+			
15			+	0.5	0	0	+	0.3	0		+	
16			+	+	0	0	+	0.3	0		1.2	+
17			0	0	0	0	+	0.3	0		0.1	+
18			0	0	0	0	0	0.3	0		+	0
19	+		0	+	0	0	0	0.1	+			0
20	0		0.1	+	0	0	0.3	+				+
21	+		+	0	0	0	0			+	+	+
22	+		0	+	0	0	+			0.9	0.5	0
23	+		0	+	0	0	+			+	+	+
24	0	+	5.2	+	0	0	0					+
25	0	0	1.7	0.3	0	0	0					+
26	0	0	0	+	+	0	1.4			+		0
27	0	0	0	0	0	0.3	3.5			0.1		+
28	0	0	0	0	0.4	0.7	0.3			+		+
29	0	0	0	0	1.1	0	+					+
30	0	0	0	0		0	+		+		+	+
31	+		0	0		0		+		+	0	
	+		7.0		4.1		5.6		+		1.8	
		0.1		7.1		1.4		1.5		1.0		+
MEAN	+	+	0.22	0.23	0.14	0.05	0.19	0.05	+	0.03	0.06	+
ACRE-FEET	+	0.2	14.	14.	8.1	2.8	11.	3.0	+	2.0	3.6	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.08
ACRE-FEET 59.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

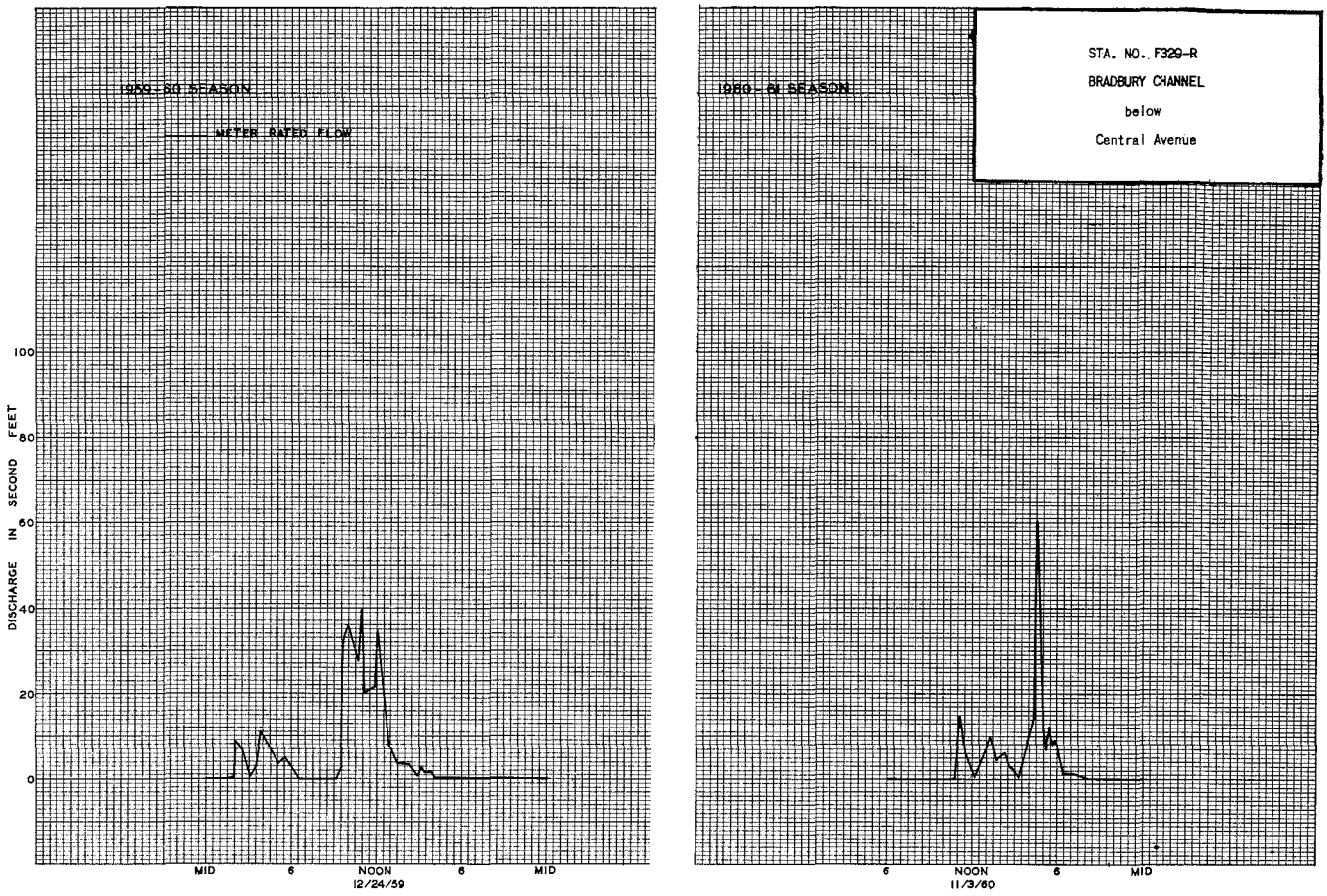
Sta. No. F329-R

Daily discharge, in second-feet of BRADBURY CHANNEL 200' below Central Avenue, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	+	0.8	0	0
2	0	0	+	0	0	0	0	+	0	+	0	0
3	0	2.8	0	0	0	0	0		+	+	0	0
4	0	+	0	0	0	0	+			0	0	0
5	0	1.6	0	+	0	0	0			0	0	0
6	0	+	0	+	0	0	+			+	0	0
7	0	+	0	+	0	0	0				0	0
8	0	0	0	0	0	0	0				0	0
9	0.2	0	0	0	0	+	0				0	0
10	0.1	0	0	0	0	0	0				0	0
11	+	0	0	+	0	0	0	+			+	0
12	0	1.8	0	+	0	0	+	0			+	0
13	0	+	0	+	0	+	0	0	+		0	0
14	0	0	0	0	0	0	0	0	0		0	0
15	0	0	0	+	0	1.5	+	+	+	+	0	0
16	0	0	0		0	0		+		0.2	+	0
17	0	0	0		0	0		+		+	+	0
18	+	0	0	+	0	0	+	0			0.3	0
19	+	0	0	0	0	0	0	0			+	0
20	0	0	0	0	0	0	0	0			+	0
21	0	0	0	+	0	0	0	0			0	+
22	0	0	0	0	0	+	+	+			0	0
23	0	0	0	+	0	0	0				+	0
24	0	0	0	+	0	0	0.3	0		+		0
25	0	0	0	+	0	+	0	+		0		0
26	0	0.7	0	4.5	0	0	+	0		0		0
27	0	+	0	+	+	0		0		0	+	0
28	0	0	0	+	0	0.3		+		0	0	0
29	0	0	0	0		0				0	0	0
30	0	0	0	0		0	+		+	0	0	0
31	0		0	0		0		+		0	0	
	0.3		+	+		+		+			0.3	
		6.9		4.5		2.1				1.0		+
MEAN	0.01	0.23	+	0.14	+	0.07	+	+	+	0.32	0.01	+
ACRE-FEET	0.6	13.7	+	8.9	+	4.2	+	+	+	2.0	0.6	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.04
ACRE-FEET 30.



STATION F108-R
CASTAIC CREEK at Highway 126

LOCATION: WATER-STAGE RECORDER, LAT. 34°25'41", LONG. 118°37'41", ON THE SECOND PIER FROM LEFT BANK ON THE DOWNSTREAM SIDE OF THE HIGHWAY BRIDGE AT STATE HIGHWAY 126 ABOUT 6.0 MILES NORTHWEST OF SAUGUS AND 1.5 MILES WEST OF THE JUNCTION OF STATE HIGHWAY 126 AND U.S. HIGHWAY 99. ELEVATION OF ZERO GAGE HEIGHT, 952.05 FEET.

DRAINAGE AREA: 202.5 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND GRAVEL.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF HIGHWAY BRIDGE.

RECORDER: AN AU RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION AND/OR DIVERSION: NONE.

RECORDS AVAILABLE: DECEMBER 27, 1945 TO SEPTEMBER 30, 1961. SOME STREAM FLOW MEASUREMENTS ARE AVAILABLE FOR EARLIER YEARS.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM NO FLOW ENTIRE YEAR
MINIMUM NO FLOW ENTIRE YEAR
1960-61
MAXIMUM 3.1 SECOND-FEET NOVEMBER 6
MINIMUM NO FLOW MOST OF YEAR
1949-61
MAXIMUM 4200 SECOND-FEET JANUARY 15, 1952.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

74D74M C3b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F108-R

Daily discharge, in second-feet of CASTAIC CREEK at Highway 126, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0				
2	0	0	0	0	0	0	0	0				
3	0	0	0	0	0	0	0	0				
4	0	0	0	0	0	0	0	0				
5	0	0	0	0	0	0	0	0				
6	0	0.4	0	0	0	0	0	0				
7	0	0	0	0	0	0	0	0				
8	0	0	0	0	0	0	0	0				
9	0	0	0	0	0	0	0	0				
10	0	0	0	0	0	0	0	0	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER
11	0	0	0	0	0	0	0	0				
12	0	0	0	0	0	0	0	0				
13	0	0	0	0	0	0	0	0				
14	0	0	0	0	0	0	0	0				
15	0	0	0	0	0	0	0	0				
16	0	0	0	0	0	0	0					
17	0	0	0	0	0	0	0					
18	0	0	0	0	0	0	0					
19	0	0	0	0	0	0	0					
20	0	0	0	0	0	0	0					
21	0	0	0	0	0	0	0	RECORDER STOPPED FOR SUMMER				
22	0	0	0	0	0	0	0					
23	0	0	0	0	0	0	0					
24	0	0	0	0	0	0	0					
25	0	0	0	0	0	0	0					
26	0	0	0	0	0	0	0					
27	0	0	0	0	0	0	0					
28	0	0	0	0	0	0	0					
29	0	0	0	0		0	0					
30	0	0	0	0		0	0					
31	0		0	0		0						
	0		0		0		0		E 0		E 0	
		0.4		0		0		E 0		E 0		E 0
MEAN	0	.013	0	0	0	0	0	E 0	E 0	E 0	E 0	E 0
ACRE-FEET	0	0.8	0	0	0	0	0	E 0	E 0	E 0	E 0	E 0

Remarks:

YEAR OR PERIOD MEAN +
ACRE-FEET 0.8

STATION F302-R
COMPTON CREEK at 120th Street

LOCATION: WATER-STAGE RECORDER, LAT. 33°55'27", LONG. 118°15'06", ON THE RIGHT (WEST) BANK OF COMPTON CREEK, 192 FEET UPSTREAM FROM CENTER LINE OF 120TH STREET, WILLOWBROOK. ELEVATION OF ZERO GAGE HEIGHT, 78.64 FEET.

DRAINAGE AREA: 14.5 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - CONCRETE, 48 FEET WIDE AND 10 FEET DEEP. CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOW MEASURED BY WADING, HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF 120TH STREET BRIDGE.

RECORDER: A STEVENS A-358 RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION AND/OR DIVERSIONS: NONE.

RECORDS AVAILABLE: JANUARY 29, 1951 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 1950 SECOND-FEET JANUARY 11.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 1140 SECOND-FEET NOVEMBER 5,
MINIMUM NO FLOW AT VARIOUS TIMES.
1951-61
MAXIMUM 2900 SECOND-FEET FEBRUARY 19, 1958.
MINIMUM NO FLOW AT VARIOUS TIMES

ACCURACY: GOOD FOR HIGH FLOW. POOR FOR LOW FLOW.

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY. OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

74D74M C4b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F302-R

Daily discharge, in second-feet of COMPTON CREEK at 120th Street, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b 0.2	b 0.2	b 0.1	b 0	1.9	2.6	b 0.1	b 0.3	b 0.4	b 0.3	b 0.3	b 0.2
2	0.2	0.2	0.1	0	3.4	b 0.2	0.1	0.3	0.4	0.2	0.5	0.2
3	0.2	0.2	0.1	0	b 0.3	0.2	0.1	0.4	0.4	0.2	0.4	0.2
4	+	0.2	0.2	0	0.3	0.1	0.2	0.5	0.3	0.2	0.3	0.2
5	0	0.2	0.2	0	0.2	+	0.2	0.5	0.2	0.2	0.5	0.1
6	0.1	0.1	0.2	+	0.2	+	0.2	0.5	0.2	0.5	0.2	0.2
7	0.1	0.1	0.2	0.1	b 0.2	+	0.2	0.5	0.3	0.3	0.2	0.2
8	0.1	0.1	0.4	b 0.1	2.8	0.1	0.2	0.5	0.2	0.3	0.2	0.2
9	0.2	0.1	0.2	1.4	4.8	0.1	0.2	0.5	0.2	0.2	0.2	0.2
10	0.1	0.1	0.2	1.1.1	1.4.6	0.1	0.2	0.5	0.2	0.2	0.2	0.2
11	+	0.2	0.2	1.2.8	b +	0.1	0.2	0.5	0.2	0.3	0.3	0.2
12	0	0.4	0.1	8.6	0	+	0.2	0.5	0.2	0.3	0.3	0.3
13	0.2	0.3	+	b +	0	+	0.2	0.5	0.2	0.3	0.3	0.5
14	0.2	0.2	0.1	4.2	+	+	0.2	0.4	0.3	0.3	0.2	0.6
15	0.2	0.1	0.2	2.2	0	+	0.2	0.5	0.3	0.3	0.2	0.4
16	0.3	0.1	0.8	b 0.2	0	0.2	0.2	0.2	0.2	0.4	0.2	0.5
17	0.2	0.1	+	0	0	+	0.2	0.4	0.2	0.4	0.2	0.2
18	0.2	0.1	0.4	0	+	+	0.1	0.4	0.2	0.3	0.2	0.3
19	0.4	0.1	0.3	0	0	0	0.2	0.5	0.2	0.4	0.2	0.2
20	0.3	0.1	b 0.2	0	0	+	0.2	0.5	0.2	0.4	0.1	0.3
21	0.3	0.1	1.2.0	+	+	0	0.2	0.5	0.4	0.5	0.2	0.6
22	0.2	0.1	b 0.1	0	0	0	0.2	0.4	0.5	0.6	0.2	0.2
23	0.2	0.1	b 0	0	0	+	0.1	0.4	0.3	0.5	0.2	0.2
24	0.2	+	9.5	b 0	0	+	0.2	0.4	0.2	0.5	0.2	0.2
25	0.2	+	4.1	2.8	+	0.1	b 0.1	0.4	0.2	0.2	0.2	0.3
26	0.2	0.1	b +	1.8	0.1	+	1.9.9	0.4	0.2	0.5	0.2	0.6
27	0.2	+	0	b +	b +	b 0.1	2.7.9	0.4	0.1	0.4	0.2	0.4
28	0.2	0.1	0	+	2.5	1.7.3	6.3	0.4	0.2	0.5	0.2	0.5
29	0.4	+	0	+	4.7	b +	b 0.4	0.3	0.2	0.6	0.2	0.3
30	0.3	b +	0	0		b +	b 0.3	0.2	b 0.2	0.4	0.2	b 0.3
31	b 0.2		b 0	b 0		b +		b 0.3		b 0.4	b 0.2	
	5.7		1.1.5.4		3.1.3.1		3.1.0.3		7.5		7.5	
		3.7		4.2.0.6		2.1.2		1.2.7		1.1.1		9.0
MEAN	0.18	0.12	3.72	13.6	10.8	0.68	10.3	0.41	0.25	0.36	0.24	0.30
ACRE-FEET	11.	7.3	229.	834.	621.	42.	615.	25.	15.	22.	15.	18.

Remarks: + = 0.05 CFS

YEAR OR PERIOD MEAN 3.38
ACRE-FEET 2450.

74D74M C4b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

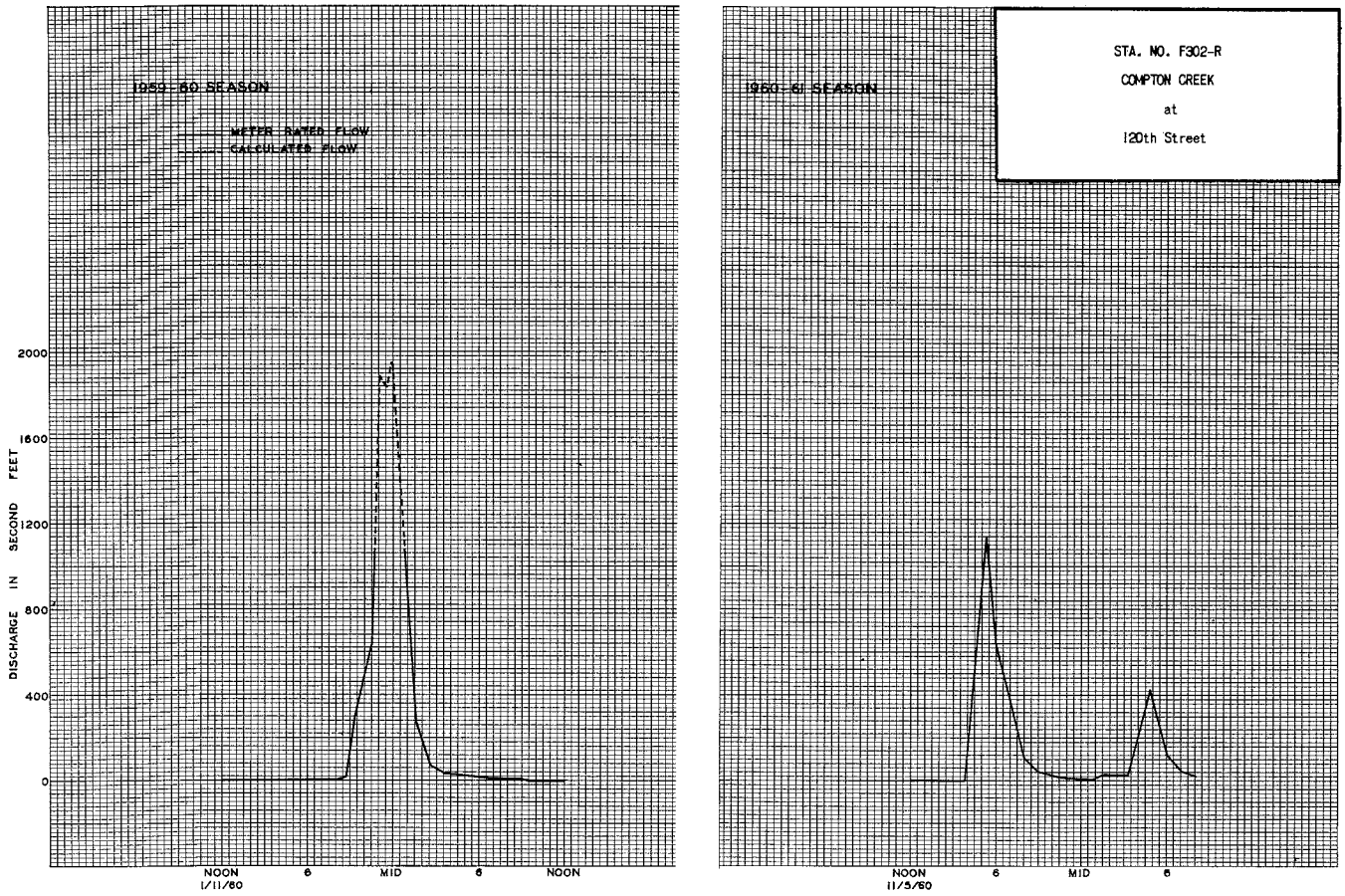
Sta. No. F302-R

Daily discharge, in second-feet of COMPTON CREEK at 120th Street, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b 0.3	b 0.2	b 0	b 0.2	b 0.2	b 0.6	b 0.3	b 0.3	b 0.3	b 0.4	b 0.6	b 0.2
2	0.2	b 0.2	9.0	0.2	0.2	0.6	0.2	0.4	0.2	0.3	0.6	0.2
3	0.2	1.9.3	b 0.1	0.2	0.2	0.6	0.2	0.4	0.2	0.2	0.4	0.2
4	0.3	b 0.2	0	0.2	0.2	0.4	0.2	0.4	0.2	0.3	0.6	0.1
5	0.3	8.7	0	0.2	0.1	0.2	0.2	0.4	0.2	0.2	0.5	0.2
6	0.3	4.4	0	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.3	0.3
7	0.3	b 0.2	0	0.2	0.1	0.6	0.2	0.3	0.3	0.3	0.3	0.3
8	0.2	0.1	0	0.2	0.1	0.4	0.1	0.3	0.4	0.3	0.4	0.2
9	0.2	0.1	0	0.2	0.2	0.4	0.2	0.4	0.3	0.3	0.4	0.2
10	0.3	0.2	0	0.2	0.1	0.3	0.1	0.4	0.4	0.3	b 0.4	0.2
11	+	b 0.1	0	0.2	0.2	0.4	0.2	0.4	0.4	0.4	e 4.0	0.2
12	0.1	4.3	0	0.4	+	0.5	0.2	0.4	0.4	0.4	b 0.3	0.3
13	0	1.6	0.2	0.2	+	0.4	0.2	0.4	b 0.5	0.4	0.3	0.3
14	0.1	b 0	0.1	0.2	+	b 0.6	0.2	0.4	e 0.8	0.4	0.2	0.2
15	0	0	0.2	0.2	0.2	2.9	0.1	0.4	b 0.7	0.4	0.4	0.3
16	0	0	0.2	0.2	0.3	b 0.4	0.1	0.5	0.6	0.3	0.4	0.2
17	0	0	0.2	0.3	0.2	0.4	0.1	0.4	0.7	0.3	b 0.4	0.2
18	0.1	0.2	+	0.3	0.2	0.3	0.2	0.5	0.4	0.4	e 3.6	0.2
19	0.2	0.3	0.2	0.3	0.3	0.4	0.1	0.4	0.4	0.6	e 1.3	0.3
20	0.2	0.1	0.2	0.3	0.3	0.4	0.1	0.4	0.4	0.5	b 0.2	0.2
21	0.3	0.2	0.2	0.2	0.2	0.6	b 0.1	0.4	0.4	0.5	0.2	0.2
22	0.2	0.2	0.2	0.2	0.3	0.6	6.2	0.4	0.6	0.4	0.2	0.2
23	0.2	0.2	0.2	0.2	0.3	0.6	b 0.3	0.3	0.6	0.2	0.3	0.2
24	0.3	0.1	0.1	b 0.3	0.3	b 0.6	0.2	0.3	0.6	0.3	0.4	0.2
25	0.3	b 0.1	0.2	2.1	0.3	e 0.7	0.2	0.3	0.5	0.4	0.6	0.2
26	0.3	5.6	+	1.1.6	0.2	e 0.6	0.2	0.4	0.4	0.4	0.4	0.2
27	0.2	b 0.3	0.2	4.5	0.3	e 0.6	0.3	0.4	0.6	0.4	0.2	0.2
28	0.1	0.1	0.2	b 0.2	b 0.4	3.7	0.3	0.4	0.5	0.5	0.2	0.2
29	0.1	0.1	0.3	0.2		b 0.3	0.4	0.2	0.6	0.4	0.2	0.2
30	0.2	b 0.1	0.3	0.2		b 0.3	0.3	0.3	b 0.6	0.3	0.2	b 0.2
31	b 0.3		b 0.3	b 0.3		b 0.3	b 0.3	b 0.2		b 0.4	b 0.2	
	5.8		1.2.6		5.6		1.1.9		1.3.5		1.8.7	
		2.5.4.2		1.2.9.0		4.6.1		1.1.4		1.1.2		6.5
MEAN	0.19	8.44	0.41	4.16	0.20	1.49	0.40	0.37	0.45	0.36	0.60	0.22
ACRE-FEET	12.	502.	25.0	256.	11.	91.	24.	23.	27.	22.	37.	13.0

Remarks:

YEAR OR PERIOD MEAN 1.44
ACRE-FEET 1040.



STATION F37B-R
COMPTON CREEK near Greenleaf Drive

LOCATION: WATER-STAGE RECORDER, LAT. 33°52'54", LONG. 118°13'27", ON THE LEFT (EAST) BANK OF THE CONCRETE CHANNEL, 120 FEET SOUTH OF THE CENTER LINE OF GREENLEAF DRIVE AND ABOUT ONE AND ONE-HALF MILES SOUTHWEST OF COMPTON. ELEVATION OF ZERO GAGE HEIGHT 50.14 FEET.

DRAINAGE AREA: 23.3 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR, CONCRETE, 13.0 FEET DEEP AND 60 FEET WIDE. INVERT IS 1.05 FEET BELOW BOTTOM OF VERTICAL SIDE WALLS. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 10 FEET BELOW GAGE.

RECORDER: A STEVENS TYPE A-35B RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE:
AT STATION F37-R - JANUARY 22, 1928 TO JUNE 9, 1938.
AT STATION F37B-R - OCTOBER 3, 1938 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 3220 SECOND-FEET JANUARY 11.
MINIMUM FLOW ON JANUARY 2, 3 AND 4.
1960-61
MAXIMUM 1640 SECOND-FEET NOVEMBER 5.
MINIMUM ZERO FLOW AT VARIOUS TIMES.
1928-61 (STATIONS F37-R AND F37B-R)
MAXIMUM DISCHARGE NOT DETERMINED, OVERFLOWED BANKS MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD 4910 SECOND-FEET JANUARY 26, 1956.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED AND CONSTRUCTED BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN CONJUNCTION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F37B-R

Daily discharge, in second-feet of COMPTON CREEK at Greenleaf Drive, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.6	0.6	0.1	358	8.8	0.4	0.8	1.1	1.1	1.0	0.8
2	0.7	0.7	0.6	0	14.0	0.5	0.4	0.8	1.1	1.0	1.6	0.7
3	0.4	0.6	0.7	0	1.6	0.4	0.4	1.1	1.1	0.7	1.2	0.7
4	0.1	0.7	0.7	0	1.2	0.2	0.6	1.9	1.0	0.6	1.0	0.5
5	0.1	0.8	0.6	+	0.8	0.1	0.6	1.1	0.8	0.8	1.0	0.4
6	0.2	0.7	0.5	0.2	0.8	0.1	0.6	2.3	0.8	1.0	0.8	0.5
7	0.2	0.7	0.6	0.4	1.0	0.1	0.6	10.8	1.0	1.0	0.6	0.7
8	0.1	0.7	1.2	0.5	44	0.2	0.5	2.3	0.8	1.0	0.5	0.6
9	0.5	0.7	0.8	1.6	7.2	0.2	0.6	16.3	0.8	0.8	0.7	0.6
10	0.2	1.0	0.7	189	2.7	0.2	0.5	3.0	0.8	0.8	0.7	0.5
11	0.1	0.8	0.6	185		0.4	0.2	0.4	2.3	0.7	1.0	0.6
12	0.1	0.8	0.5	175		0.2	0.1	0.4	3.0	0.8	1.1	0.7
13	0.4	0.8	0.2	1.2		0.2	0.1	0.5	3.4	0.7	1.1	0.6
14	0.2	0.8	0.2	84		0.4	0.2	0.5	1.1	1.0	1.1	0.5
15	0.4	0.6	0.8	34		0.2	0.6	0.6	0.6	1.0	1.2	0.5
16	0.7	0.7	1.6	0.7		0.2	0.8	0.6	0.5	0.7	1.2	0.8
17	0.4	0.7	0.7	0.1		0.2	0.4	0.5	0.8	0.8	1.2	0.8
18	0.7	0.8	1.2	0.2		0.1	0.4	0.4	1.1	0.7	1.1	0.7
19	0.7	0.8	0.8	0.2		0.1	0.2	0.5	1.1	0.8	1.2	0.7
20	1.0	0.6	0.6	0.1		0.1	0.4	0.5	1.2	0.6	1.2	0.5
21	0.7	0.7	18.0	0.1		0.2	0.2	0.6	1.2	1.2	1.6	0.5
22	0.7	0.6	0.2	0.1		0.2	0.2	0.5	1.0	1.6	1.9	0.7
23	0.8	0.5	0.1	0.1		0.4	0.4	0.4	1.0	1.0	1.6	0.8
24	0.7	0.6	166	0.1		0.2	0.4	0.6	1.1	0.7	1.6	0.8
25	0.7	0.7	15.0	38		0.2	0.5	0.4	1.1	0.6	1.1	0.9
26	0.6	0.6	0.2	5.8		0.5	0.4	5.9	1.1	0.5	1.6	1.0
27	0.8	0.4	0.1	0.1		0.4	0.4	463	1.1	0.4	1.2	0.8
28	0.7	0.6	0.2	0.1	39		21	22	1.1	0.7	1.6	0.5
29	0.8	0.2	0.2	0.4	104		0.1	1.2	1.0	0.8	1.9	0.6
30	0.8	0.4	0.2	0.2			0.2	0.8	0.7	0.8	1.2	0.8
31	0.5		0.2	0.1			0.2		1.0		1.1	0.7
	15.6		214.6		602.8		505.5		25.4		23.7	
		199		717.4		382		876		366		301
MEAN	0.50	0.66	6.93	23.1	20.8	1.24	16.8	2.83	0.85	1.18	0.76	1.00
ACRE-FEET	31.	39.	426.	1420.	1200.	76.	1000.	174.	50.	73.	47.	60.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 6.33
ACRE-FEET 4590.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

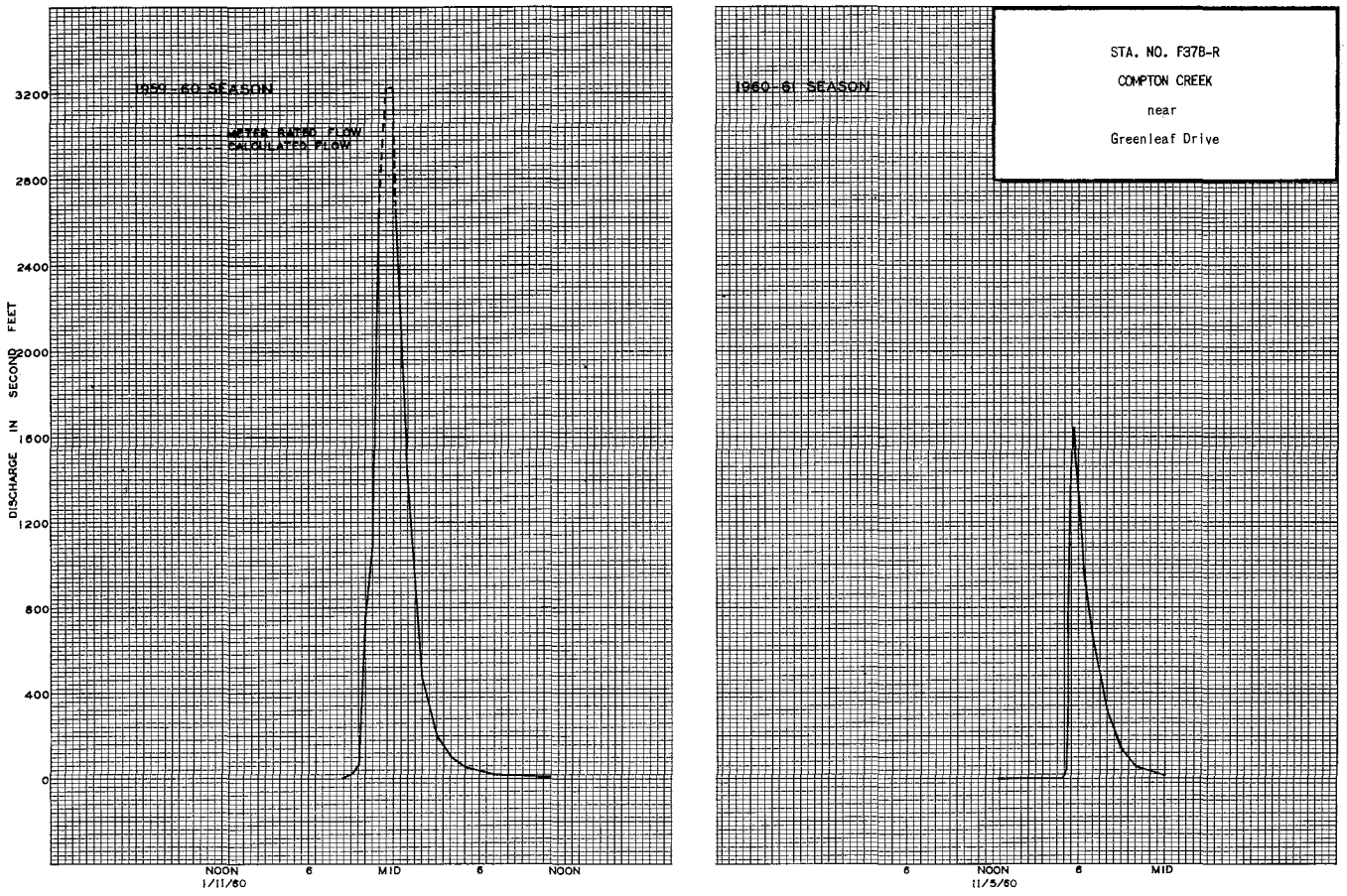
Sta. No. F37B-R

Daily discharge, in second-feet of COMPTON CREEK at Greenleaf Drive, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	0.5	0.4	0.7	0.6	1.9	0.8	1.0	0.8	1.2	2.3	0.6
2	0.6	0.6	9.2	0.6	0.6	1.9	0.7	1.1	0.6	0.8	1.9	0.5
3	0.6	19.2	0.4	0.5	0.6	1.9	0.7	1.1	0.5	0.7	1.2	0.5
4	0.8	0.5	0.1	0.6	0.5	1.1	0.7	1.2	0.5	1.0	1.9	0.4
5	0.8	11.7	0.1	0.7	0.4	0.7	0.6	1.1	0.5	0.7	1.6	0.6
6	0.8	6.5	0.1	0.7	0.7	1.0	0.5	1.0	0.8	1.0	1.0	0.8
7	0.8	0.7	+	0.6	0.4	1.9	0.5	1.0	0.8	1.0	1.0	0.8
8	0.7	0.4	+	0.5	0.4	1.1	0.4	1.0	1.1	1.0	1.2	0.7
9	0.6	0.4	+	0.5	0.6	1.1	0.5	1.1	1.0	1.0	1.2	0.6
10	14.1	0.6	0.1	0.7	0.4	1.0	0.4	1.2	1.2	1.0	1.1	0.5
11	0.2	0.4	0.2	0.7	0.5	1.2	0.5	1.2	1.1	1.1	5.5	0.6
12	0.4	6.4	0.1	1.1	0.2	1.6	0.7	1.2	1.1	1.1	1.0	1.0
13	0.4	1.1	0.5	0.7	0.2	1.2	0.5	1.1	1.6	1.2	0.8	1.0
14	0.4	0.2	0.4	0.7	0.2	1.9	0.5	1.1	2.9	1.2	0.7	0.6
15	0.1	0.2	0.5	0.7	0.5	55	0.4	1.1	2.6	1.2	1.2	0.8
16	+	0.2	0.5	0.7	0.6	1.1	0.4	1.6	2.3	1.0	1.1	0.7
17	+	0.4	0.5	0.8	0.7	1.1	0.4	1.2	2.6	1.0	1.2	0.5
18	0.4	0.7	0.2	0.8	0.7	0.8	0.5	1.6	a 1.2	1.2	4.8	0.6
19	0.5	1.0	0.5	0.8	0.8	1.1	0.4	1.2	1.1	1.9	2.5	0.8
20	0.5	0.4	0.6	0.8	0.8	1.2	0.4	1.1	1.4	1.6	0.5	0.7
21	1.0	0.5	0.5	0.7	0.6	1.9	0.4	1.1	a 1.1	1.6	0.7	0.7
22	0.7	0.6	0.6	0.7	0.8	1.9	6.1	1.1	2.3	1.1	0.7	0.7
23	0.6	0.5	0.5	0.7	0.8	3.4	0.8	1.0	1.9	0.7	1.0	0.6
24	0.8	0.4	0.4	0.8	0.8	3.4	0.6	0.8	1.9	0.8	1.1	0.6
25	0.8	0.4	0.5	2.9	0.8	3.7	0.7	1.0	1.6	1.2	1.9	0.5
26	0.8	9.7	0.2	20.4	0.6	2.3	0.7	1.2	1.2	1.2	1.2	0.7
27	0.7	1.0	0.6	9.9	0.8	2.3	0.8	1.2	1.9	1.2	0.7	0.7
28	0.4	0.4	0.7	1.1	1.1	7.6	1.0	1.1	1.6	1.6	0.6	0.6
29	0.4	0.4	0.8	0.5		0.8	1.1	0.6	1.9	1.2	0.7	0.6
30	0.5	0.4	0.8	0.7		0.8	1.0	0.8	2.3	0.8	0.5	0.6
31	0.8		0.8	0.8		1.0		0.5		1.2	0.5	
	31.0		20.8		17.0		23.7		43.4		43.3	
		375.1		236.7		108.9		33.6		34.5		19.6
MEAN	1.00	12.5	0.67	7.64	0.61	3.51	0.79	1.08	1.45	1.11	1.40	0.65
ACRE-FEET	61.	744.	41.	69.	34.	216.	47.	67.	86.	68.	86.	39.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 2.71
ACRE-FEET 1960.



STATION F320-R
COYOTE CREEK at Centralia Road

LOCATION: WATER-STAGE RECORDER, LAT. 33°50'20", LONG. 118°03'34", ON THE DOWNSTREAM SIDE OF THE CENTRALIA ROAD BRIDGE 2.3 MILES SOUTHEAST OF ARTESIA. ELEVATION OF ZERO GAGE HEIGHT, APPROXIMATELY 20.2 FEET. FORMER STATIONS F41-R, F41B-R AND F41C-R WERE AT DEL AMO STREET, ONE HALF MILE UPSTREAM.

DRAINAGE AREA: 110 SQUARE MILES TO DECEMBER 1, 1960; 122. SQUARE MILES THEREAFTER.

CHANNEL AND CONTROL: ADOBE BOTTOM. TRAPEZOIDAL CHANNEL WITH EARTHEN LEVEES. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF HIGHWAY BRIDGE.

RECORDER: A STEVENS A-35 RECORDER IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: AT STATION F41-R, STREAM FLOW MEASUREMENTS TAKEN FROM DECEMBER 1, 1928, TO JANUARY 14, 1930. RECORDER RECORDS FROM JANUARY 14, 1930 TO OCTOBER 30, 1936; AT STATION F41B-R, OCTOBER 30, 1936 TO FEBRUARY 17, 1937; AT STATION F41C-R, FEBRUARY 18, 1937 TO FEBRUARY 8, 1956; AT STATION F320-R, FEBRUARY 9, 1956 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 2390 SECOND-FEET FEBRUARY 1.
MINIMUM 0.3 SECOND-FOOT AUGUST 8.
1960-61
MAXIMUM 1380 SECOND-FEET JANUARY 26.
MINIMUM 0.3 SECOND-FOOT MAY 7.
1929-61
(STATIONS F41-R, F41B-R, F41C-R, F320-R)
MAXIMUM 7360 SECOND-FEET JANUARY 18, 1952.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

FEDFORM Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F320-R

Daily discharge, in second-feet of COYOTE CREEK at Centralia Road, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.3	0.9	1.6	2.4	205	55	1.4	5.0	2.4	1.5	0.5	1.3
2	5.1	4.4	1.5	1.9	280	5.6	1.1	4.6	2.1	0.9	2.3	2.5
3	4.6	2.1	1.6	1.6	81	4.6	1.0	3.8	1.3	0.8	3.6	1.3
4	4.7	1.8	2.7	2.7	2.8	b 1.5	1.0	6.2	1.0	0.7	4.4	1.0
5	4.4	1.6	1.8	1.3	2.0	1.5	1.4	b 4.0	1.5	2.2	2.2	0.6
6	3.3	2.1	1.7	1.1	1.6	1.5	1.8	2.5	2.2	3.4	1.0	1.0
7	2.3	1.7	1.9	1.5	1.3	1.5	1.9	2.1	1.5	2.6	0.6	2.9
8	2.1	1.4	3.9	1.6	150	1.5	2.1	1.6	1.5	3.5	0.4	3.2
9	1.9	1.2	4.4	2.2	36	1.5	2.0	1.7	1.5	2.2	1.7	2.3
10	1.7	1.9	2.5	119	45	b 1.5	2.3	1.8	1.2	1.6	1.0	1.8
11	1.6	1.2	2.6	28	b 6.1	1.4	2.0	1.3	b 1.3	2.4	1.2	1.2
12	1.7	1.2	3.0	420	4.6	1.3	2.3	1.2	1.3	2.9	0.9	0.6
13	2.5	1.3	3.1	115	3.9	1.6	1.8	1.3	1.4	2.9	0.8	1.7
14	1.9	1.4	3.1	82	3.2	1.7	1.7	1.8	b 1.4	3.9	0.6	2.3
15	1.2	2.2	2.6	49	2.9	2.0	3.1	2.2	1.5	2.5	0.7	3.6
16	1.2	2.6	2.7	9.8	2.8	1.7	3.3	2.0	1.3	1.9	2.2	5.3
17	1.7	2.5	2.4	b 5.0	3.9	2.5	3.3	2.1	1.2	1.8	2.1	3.2
18	1.5	2.5	2.8	4.0	b 2.7	2.6	3.8	1.9	0.9	4.7	2.2	2.0
19	1.1	1.9	2.8	3.0	5.1	2.3	3.2	1.8	0.8	4.0	2.3	1.9
20	1.4	2.0	2.6	3.0	5.1	2.1	3.4	2.1	0.8	3.0	0.9	2.1
21	2.2	1.5	2.3	b 2.8	3.8	2.2	3.4	2.1	1.1	1.4	0.6	2.5
22	1.7	1.5	3.3	2.9	3.8	2.1	3.7	1.8	1.4	1.5	0.6	3.1
23	1.2	1.9	2.1	2.7	4.1	2.2	3.5	1.7	1.0	1.0	1.8	2.0
24	1.1	1.9	88	1.7	4.2	1.5	3.9	1.3	1.0	0.8	2.9	1.8
25	1.1	1.9	90	4.9	6.3	1.3	3.5	2.7	0.9	0.8	3.5	1.2
26	1.6	1.9	8.9	19	6.3	1.6	4.4	2.8	0.9	1.2	4.5	1.1
27	1.7	1.5	5.6	3.4	5.7	1.8	268	2.6	2.6	1.6	2.2	2.7
28	1.5	1.6	3.4	2.1	13	1.8	23	2.6	0.8	1.4	1.3	2.6
29	1.0	1.5	3.0	1.6	104	3.1	5.7	2.1	0.9	0.9	2.0	2.9
30	0.9	1.5	4.0	1.2		1.8	5.2	2.4	2.0	0.7	2.3	2.6
31	1.0		3.0	1.7		1.6		3.4		0.8	1.1	
	662		285.6		788.3		368.2		40.7		54.4	
		54.6		798.1		132.1		76.5		61.5		64.4
MEAN	2.14	1.82	9.21	25.7	27.2	4.26	12.3	2.47	1.36	1.98	1.75	2.14
ACRE-FEET	131.	108.	566.	1580.	1560.	262.	730.	152.	81.	122.	108.	128.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 7.62
ACRE-FEET 5560.

FEDFORM Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

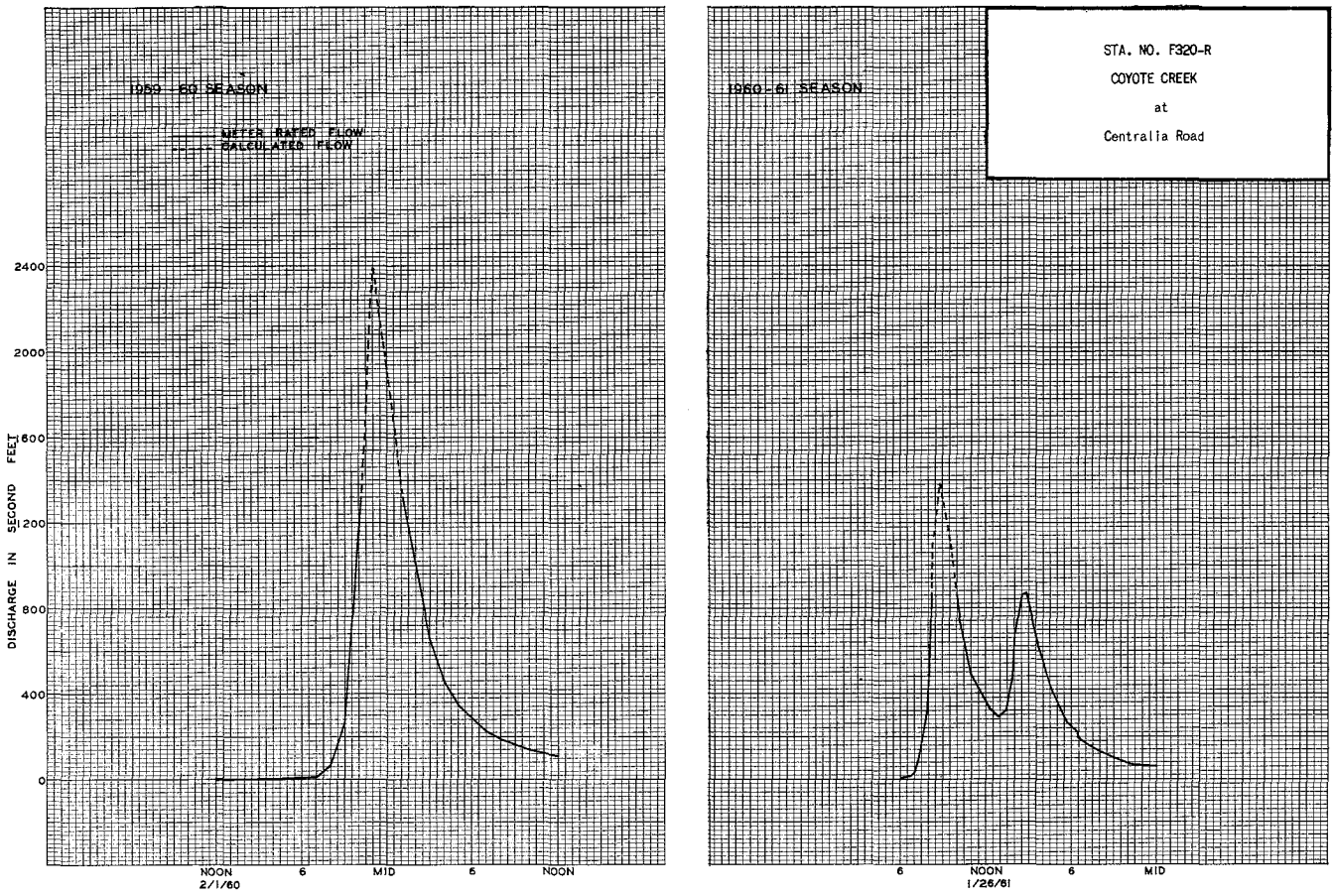
Sta. No. F320-R

Daily discharge, in second-feet of COYOTE CREEK at Centralia Road, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.0	a 3.0	b 1.5	1.2	b 2.0	2.8	4.1	0.9	1.5	1.2	1.2	1.5
2	0.8	a 3.0	5.1	1.2	1.9	3.1	4.2	0.8	1.7	1.2	1.4	0.8
3	0.6	4.3	2.2	1.2	1.8	4.3	4.5	0.8	1.4	0.8	0.9	0.8
4	3.4	2.8	1.8	2.4	1.5	3.4	4.6	0.6	0.6	0.9	3.1	0.4
5	2.5	8.1	1.6	1.5	1.2	1.7	4.5	0.8	0.8	0.9	3.2	0.6
6	1.6	5.5	1.3	1.2	1.2	1.6	5.7	0.5	1.0	1.0	1.2	1.1
7	2.4	1.2	1.2	1.5	0.9	1.2	5.4	0.4	0.8	1.1	0.9	0.9
8	2.4	5.8	1.1	1.2	0.7	1.1	4.6	0.7	1.1	1.2	1.3	2.3
9	1.4	6.0	1.2	1.2	0.6	1.2	4.6	1.7	1.0	3.7	1.1	1.0
10	32	6.4	1.6	1.2	0.7	1.2	6.0	2.3	1.0	5.1	1.3	0.7
11	7.1	6.0	1.7	1.5	0.8	1.2	5.1	4.4	1.0	3.3	1.9	1.0
12	3.0	2.3	1.6	1.4	0.8	1.2	6.3	3.0	0.8	2.1	1.2	0.8
13	1.8	3.7	1.8	1.2	1.0	1.2	5.5	2.7	1.4	3.1	1.0	0.7
14	2.2	7.1	1.9	1.2	1.3	1.3	4.0	2.7	1.1	2.2	1.2	0.6
15	1.4	5.9	2.1	1.5	1.5	2.4	b 2.8	3.2	1.0	1.5	1.2	0.6
16	0.8	3.8	1.8	1.2	1.5	5.2	b 3.2	1.0	1.0	1.0	1.8	1.9
17	0.7	4.4	1.6	2.1	1.6	3.5	4.1	1.0	0.8	0.7	1.4	2.4
18	1.9	4.2	1.5	2.7	2.1	3.2	b 2.8	1.2	1.2	0.8	1.4	1.2
19	2.3	5.1	1.4	1.3	2.2	3.0	b 2.8	1.7	1.5	1.0	1.8	1.8
20	2.4	4.0	1.4	2.3	2.1	b 2.5	b 2.8	1.9	1.6	1.0	0.8	1.4
21	1.8	4.4	1.3	1.6	2.0	b 2.0	2.8	2.2	1.1	1.0	a 1.5	2.3
22	2.4	5.4	1.1	1.5	2.6	b 2.0	17	1.9	2.1	2.3	a 0.7	2.9
23	2.9	6.0	1.0	2.1	3.0	3.0	1.6	3.2	1.3	2.8	a 1.5	2.7
24	a 3.0	3.3	1.3	3.2	2.9	4.1	0.8	2.6	1.2	2.1	0.6	2.3
25	3.0	3.0	1.1	12	2.6	14	0.9	2.3	0.8	1.2	0.7	1.5
26	3.0	144	1.8	300	3.1	b 2.5	0.6	1.9	1.0	1.6	0.8	1.6
27	3.0	32	3.8	31	3.9	b 2.0	0.6	1.6	0.9	2.1	1.0	1.5
28	3.0	b 3.0	1.6	b 4.0	4.3	12	0.7	1.6	1.0	2.6	0.8	1.0
29	3.0	b 2.5	1.5	3.5		b 2.0	0.8	1.4	1.1	1.5	1.0	0.8
30	3.0	b 2.0	1.4	3.0		b 1.0	0.8	0.8	1.4	2.0	0.8	0.8
31	a 3.0		1.3	b 2.5		1.4		0.6		2.1	3.2	
	103.8		52.6		51.8		114.2		34.2		41.9	
		549.3		394.6		113.9		52.4		55.1		40.1
MEAN	3.35	18.3	1.70	12.7	1.85	3.67	3.81	1.69	1.14	1.78	1.35	1.34
ACRE-FEET	206.	1090.	104.	781.	103.	226.	227.	104.	68.	109.	83.	80.

Remarks:

YEAR OR PERIOD MEAN 4.39
ACRE-FEET 3180.



STATION F265-R
DOMINGUEZ CHANNEL at Carson Street

LOCATION: WATER-STAGE RECORDER, LAT. 33°49'56", LONG. 118°15'12", ON THE DOWNSTREAM SIDE OF THE CARSON STREET BRIDGE, ABOUT ONE-HALF MILE EAST OF AVALON BOULEVARD. ELEVATION OF ZERO GAGE HEIGHT ABOUT 0.0 FEET.

DRAINAGE AREA: 54.5 SQUARE MILES, (56. SQUARE MILES PRIOR TO 1956).

CHANNEL AND CONTROL: CHANNEL - DREDGED EARTH.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF BRIDGE.

RECORDER: AN AU RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: REGULATED BY LAGUNA-DOMINGUEZ AREA. SUBJECT TO PONDING.

DIVERSIONS: NONE.

RECORDS AVAILABLE: NOVEMBER 23, 1938 TO SEPTEMBER 30, 1961. FOR PREVIOUS RECORDS SEE EARLIER REPORTS ON STATION F46-R, NIGGER SLOUGH AT WILMINGTON AVENUE.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 494 SECOND-FEET FEBRUARY 2.
MINIMUM 6.4 SECOND-FEET SEPTEMBER 2.
1960-61
MAXIMUM 256 SECOND-FEET NOVEMBER 6.
MINIMUM 3.6 SECOND FEET MARCH 2.
1938-61
MAXIMUM 1720 SECOND-FEET JANUARY 26, 27, 1956.
MINIMUM NO MEASURABLE FLOW. WATER PONDED AT GAGE.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F265-R

Daily discharge, in second-feet of DOMINGUEZ CHANNEL at Carson Street, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	9.5	10	12	29	138	12	33	9.7	9.2	9.7	7.7
2	13	9.7	9.7	12	436	72	12	22	9.7	9.5	11	7.2
3	16	10	12	11	253	42	12	17	10	10	9.7	8.1
4	15	11	11	11	126	29	12	15	9.5	10	10	8.1
5	16	12	11	11	82	23	12	14	9.2	10	10	8.3
6	17	12	11	11	43	20	12	12	9.0	10	11	8.5
7	16	12	11	12	28	18	11	12	9.2	10	10	8.8
8	16	12	12	11	28	17	12	11	8.8	10	10	8.5
9	14	13	11	12	44	15	11	12	9.0	10	9.5	8.3
10	15	13	11	96	69	14	11	11	8.1	11	9.5	10
11	14	15	12	190	69	14	11	12	8.5	10	9.7	11
12	14	15	12	304	38	14	11	13	9.2	10	10	10
13	14	15	12	196	26	14	11	13	8.5	9.7	12	12
14	13	14	11	110	19	14	12	13	9.2	10	12	12
15	11	14	12	180	16	14	12	12	10	10	11	11
16	12	14	12	108	15	14	13	12	10	10	13	11
17	12	14	12	60	13	14	12	12	9.7	11	12	11
18	12	14	12	37	12	14	12	12	9.7	11	11	11
19	12	13	13	24	14	14	12	11	9.0	11	11	11
20	12	13	14	22	13	14	13	11	9.2	10	11	13
21	12	14	17	20	13	15	11	11	9.5	11	11	12
22	13	12	21	17	12	15	12	11	10	12	9.5	11
23	11	11	26	14	11	17	13	10	8.5	12	9.7	11
24	11	11	51	13	10	15	13	9.7	10	11	9.2	12
25	10	10	162	13	10	14	12	10	9.7	11	9.2	12
26	9.7	11	105	25	9.0	14	14	11	9.2	10	9.2	12
27	8.8	12	50	34	9.5	14	229	10	9.2	10	10	11
28	9.5	12	28	23	13	15	230	10	10	8.5	10	11
29	8.8	12	20	17	117	24	100	9.7	9.0	10	9.2	12
30	8.8	12	16	16		18	53	9.5	8.8	10	8.5	11
31	9.5		13	15		14		9.2		10	8.8	
	3891		7407	15775		9230		2791		3174		
		3722			16370		7030		3911		3179	3115
MEAN	12.6	12.4	23.9	52.8	54.4	22.7	30.8	12.6	9.30	10.3	10.2	10.0
ACRE-FEET	772.	738.	1470.	3250.	3130.	1390.	1830.	776.	554.	631.	638.	618.

Remarks:

YEAR OR PERIOD MEAN 21.7
ACRE-FEET 15,790.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

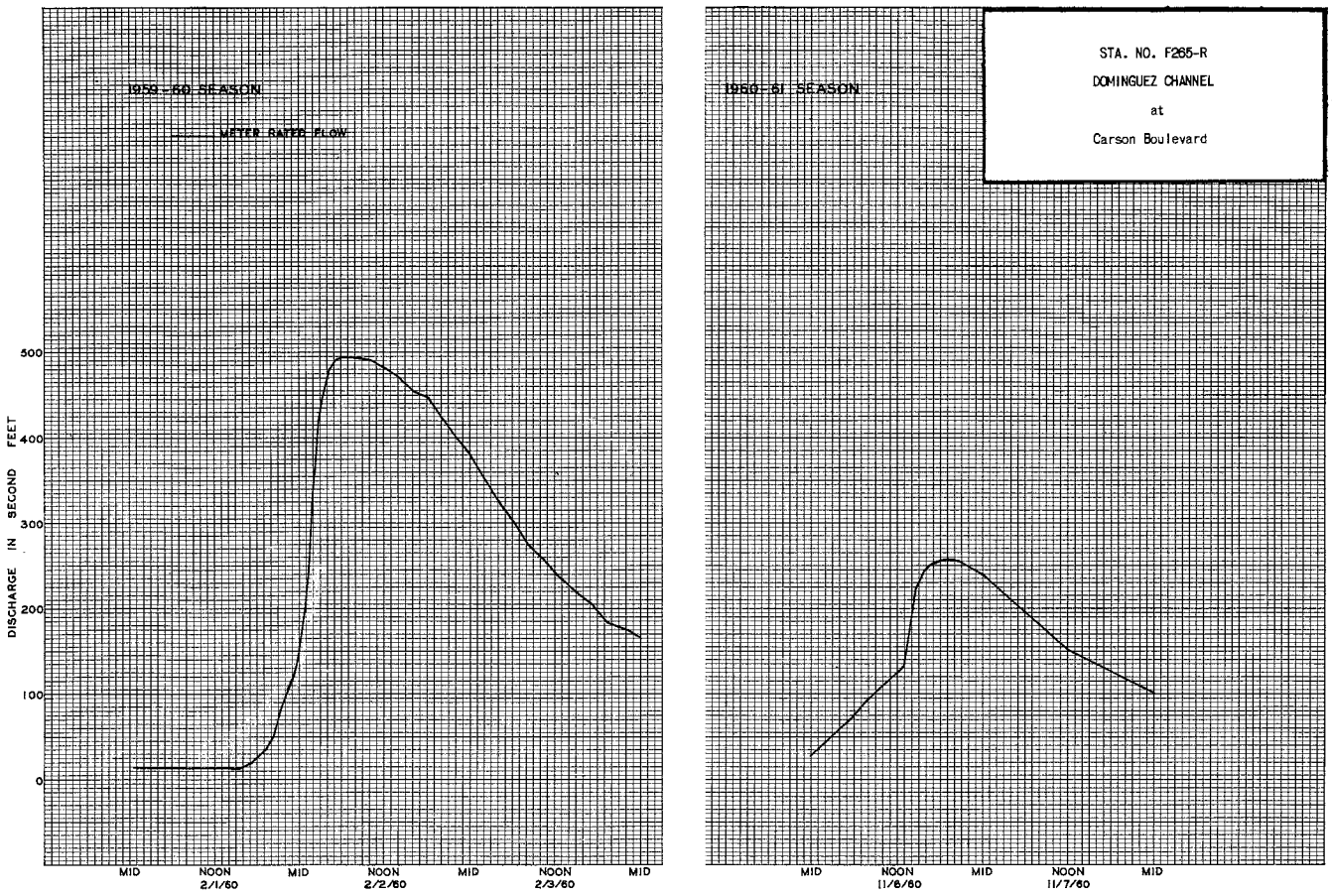
Sta. No. F265-R

Daily discharge, in second-feet of DOMINGUEZ CHANNEL at Carson Street, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	9.2	14	9.5	12	9.2	6.8	9.2	14	14	6.6	6.2
2	11	9.0	14	8.5	11	8.3	8.5	9.2	14	9.7	6.6	6.2
3	11	9.7	20	8.1	10	8.5	8.3	12	14	8.8	6.8	6.8
4	13	18	16	9.0	9.5	10	9.0	12	15	7.9	6.6	8.3
5	11	26	13	8.5	9.5	9.0	10	11	18	7.9	6.8	9.7
6	10	153	11	9.2	10	7.9	7.7	10	13	7.4	6.4	10
7	10	164	10	10	11	8.5	8.1	9.7	12	6.8	7.0	9.2
8	11	68	11	9.2	10	7.9	6.2	8.8	11	7.4	6.8	8.8
9	12	31	10	9.7	9.7	7.9	6.0	8.1	10	7.4	6.8	8.5
10	11	20	10	9.7	9.2	7.7	7.4	7.9	9.7	7.2	6.8	8.3
11	12	17	11	9.2	10	7.2	9.2	7.4	9.5	8.1	6.8	8.5
12	10	15	10	8.1	11	7.9	10	7.2	11	7.4	8.1	8.5
13	10	32	9.2	10	9.7	9.2	9.0	7.0	12	7.4	7.4	8.5
14	10	34	11	8.5	9.5	13	7.7	7.0	11	6.8	7.9	8.5
15	9.2	18	12	8.5	9.0	16	12	7.2	12	7.9	7.4	8.8
16	8.8	13	10	8.5	10	36	12	7.4	12	7.7	7.4	8.5
17	9.5	12	12	8.8	10	35	11	7.0	12	7.4	7.2	8.8
18	9.7	12	9.7	10	10	27	13	6.4	12	7.4	6.8	8.5
19	10	12	9.0	10	8.8	17	13	6.0	14	7.0	6.2	8.1
20	9.5	11	9.2	9.7	9.2	12	8.3	9.5	14	7.7	6.4	7.7
21	8.8	11	8.3	9.7	8.5	11	7.9	9.7	14	7.7	6.0	7.2
22	9.2	11	11	9.5	8.5	7.7	8.8	9.2	14	8.3	6.8	7.4
23	7.9	11	9.0	10	8.5	7.0	8.3	8.8	14	8.1	6.0	7.9
24	8.8	12	8.8	11	8.8	7.0	7.9	9.5	16	7.9	6.0	8.3
25	9.0	11	8.3	11	8.3	8.5	10	9.7	15	6.8	5.8	8.3
26	9.7	17	9.5	101	10	11	9.7	12	15	7.0	7.2	8.3
27	9.5	100	9.0	159	9.5	12	8.5	13	15	8.1	7.0	8.5
28	9.5	68	11	56	9.0	11	8.8	14	15	8.8	6.6	10
29	10	30	a11	32		11	8.8	15	17	8.5	6.8	11
30	9.2	18	a10	18		10	9.5	16	15	8.5	7.0	11
31	9.5		10	14		9.5		16		7.4	7.4	
	3108		3380	2702		2714		4002		2114		
		9729			6139		3709		3029		2464	2543
MEAN	10.0	32.4	10.9	19.8	9.65	12.0	9.05	9.77	13.3	7.95	6.82	8.48
ACRE-FEET	616.	1930.	670.	1220.	536.	736.	538	601.	794.	489.	419.	504.

Remarks:

YEAR OR PERIOD MEAN 12.5
ACRE-FEET 9050.



STATION F210-R
DOMINGUEZ CHANNEL at Harbor Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 33°51'21", LONG. 118°18'40". ON THE DOWNSTREAM SIDE OF HARBOR BOULEVARD. ELEVATION OF ZERO GAGE HEIGHT 0.00 FEET.

CHANNEL AND CONTROL: NATURAL ADOBE CHANNEL TO JANUARY 1961.

RECORDS AVAILABLE: WATER-STAGE RECORDER RECORDS AVAILABLE FROM JANUARY 5, 1942 TO JANUARY 5, 1961.

PURPOSE: FOR HYDRAULIC STUDIES ONLY. DISCHARGE MEASUREMENTS ARE NOT MADE NOR ARE DAILY FLOWS COMPUTED.

REMARKS: STATION REMOVED JANUARY 6, 1961, DUE TO BRIDGE CONSTRUCTION.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

STATION F53-R
DUME CREEK at Pacific Coast Highway
(formerly Roosevelt Highway)

LOCATION: WATER-STAGE RECORDER, LAT. 34°01'02", LONG. 118°49'00", ON THE DOWNSTREAM SIDE OF PACIFIC COAST HIGHWAY BRIDGE NEAR DUME POINT ABOUT 0.2 MILE FROM PACIFIC OCEAN, 22 MILES WEST OF SANTA MONICA. ELEVATION OF ZERO GAGE HEIGHT, 10.01 FEET.

DRAINAGE AREA: 8.8 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND GRAVEL.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM HIGHWAY BRIDGE.

RECORDER: A STEVENS, TYPE A-35, CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABEL: JANUARY 15, 1930 TO NOVEMBER 26, 1937, NOVEMBER 3, 1938 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 11 SECOND-FEET FEBRUARY 1.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM NO FLOW ALL YEAR.
MINIMUM NO FLOW ALL YEAR.
1930-61
MAXIMUM DISCHARGE NOT DETERMINED, MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD, 2750 SECOND-FEET, DECEMBER 31, 1933.
MINIMUM NO FLOW MOST YEARS.

ACCURACY: POOR DURING HIGH FLOWS. FAIR DURING LOW FLOWS.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gfb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F53-R

Daily discharge, in second-feet of DUME CREEK at Coast Highway, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0 .6	0	0	0				
2	0	0	0	0	0	0	0	0				
3	0	0	0	0	0	0	0	0				
4	0	0	0	0	0	0	0	0				
5	0	0	0	0	0	0	0	0				
6	0	0	0	0	0	0	0	0				
7	0	0	0	0	0	0	0	0				
8	0	0	0	0	0	0	0	0				
9	0	0	0	0	0	0	0	0				
10	0	0	0	0	0	0	0	0				
11	0	0	0	0	0	0	0	0				
12	0	0	0	0	0	0	0	0				
13	0	0	0	0	0	0	0	0				
14	0	0	0	0	0	0	0	0				
15	0	0	0	0	0	0	0	0				
16	0	0	0	0	0	0	0	0				
17	0	0	0	0	0	0	0	0				
18	0	0	0	0	0	0	0	0				
19	0	0	0	0	0	0	0	0				
20	0	0	0	0	0	0	0	0				
21	0	0	0	0	0	0	0	0				
22	0	0	0	0	0	0	0	0				
23	0	0	0	0	0	0	0	0				
24	0	0	0	0	0	0	0	0				
25	0	0	0	0	0	0	0	0				
26	0	0	0	0	0	0	0	0				
27	0	0	0	0	0	0	0					
28	0	0	0	0	0	0	0					
29	0	0	0	0	0	0	0					
30	0	0	0	0		0	0					
31	0		0	0		0						
	0		0		0.6		0		E 0		E 0	
		0		0		0		E 0		E 0		E 0
MEAN	0	0	0	0	0.02	0	0	E 0	E 0	E 0	E 0	E 0
ACRE-FEET	0	0	0	0	1.2	0	0	0	E 0	E 0	E 0	E 0

RECORDER STOPPED FOR SUMMER

STOPPED FOR SUMMER

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN +
ACRE-FEET 1.2

STATION U2-R
EATON CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR, LAT. 34°11'37", LONG 118°06'13", IN S.E. 1/4 SEC. 2,T.1N. R12W, ON RIGHT BANK. AT MOUTH OF CANYON JUST UPSTREAM FROM BRIDGE ON OLD MOUNT WILSON TOLL ROAD, AND 4.5 MILES NORTHEAST OF PASADENA. ALTITUDE OF GAGE ABOUT 1230 FEET.

DRAINAGE AREA: 6.5 SQUARE MILES.

RECORDS AVAILABLE: MARCH 1918 TO SEPTEMBER 30, 1961.

AVERAGE DISCHARGE: 43 YEARS, 2.13 SECOND-FEET. AVERAGE COMBINED DISCHARGE OF CREEK AND DIVERSION 38 YEARS, 3.29 SECOND-FEET.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 4.0 SECOND-FEET JANUARY 12. (GAGE HEIGHT 1.29 FEET.)
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM 13 SECOND-FEET JANUARY 26. (GAGE HEIGHT 1.64 FEET.)
MINIMUM NO FLOW MOST OF YEAR.
1918-61
MAXIMUM 2400 SECOND-FEET MARCH 2, 1938 FROM RECORD OF INFLOW TO EATON FLOOD CONTROL RESERVOIR.
MINIMUM NO FLOW FOR SOME PERIODS IN EACH YEAR.

REMARKS: RECORDS GOOD. RECORDS DO NOT INCLUDE WATER DIVERTED ABOVE STATION BY CITY OF PASADENA.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

76DT4M Gib 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U2-R

Daily discharge, in second-feet of EATON CREEK above Mouth of Canyon, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0.1	0.3	0	0	0	0	0	0
2	0	0	0	0	0.4	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0.1	0	0	0	0	0	0	0
9	0	0	0	0	0.9	0	0	0	0	0	0	0
10	0	0	0	0.6	0	0	0	0	0	0	0	0
11	0	0	0	0.6	0	0	0	0	0	0	0	0
12	0	0	0	1.5	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0.2	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0.6	0	0	0	0	0
28	0	0	0	0	0	0	0.6	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	2.9	1.5	0.3	1.2	0	0	0	0	0
MEAN	0	0	0	0.09	0.05	0.01	0.04	0	0	0	0	0
ACRE-FEET	0	0	0	5.8	3.0	0.6	2.4	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.02
ACRE-FEET 12.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U2-R

Daily discharge, in second-feet of EATON CREEK above Mouth of Canyon, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0.5	0	0	0	0	0	0	0	0	0	0
6	0	4.6	0	0	0	0	0	0	0	0	0	0
7	0	1.4	0	0	0	0	0	0	0	0	0	0
8	0	0.5	0	0	0	0	0	0	0	0	0	0
9	0	0.1	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0.9	0	0	0	0	0	0	0	0	0	0
13	0	1.2	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0.2	0	3.0	0	0	0	0	0	0	0	0
27	0	0.4	0	1.4	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		0		0		0		0		0	
		9.8		4.4		0		0		0		0
MEAN	0	0.33	0	0.14	0	0	0	0	0	0	0	0
ACRE-FEET	0	19.	0	8.7	0	0	0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.04
ACRE-FEET 28

STATION F27I-R
EATON WASH below Eaton Wash Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'05", LONG. 118°05'28", ON THE RIGHT (WEST) BANK OF THE CONCRETE OUTLET CHANNEL 190 FEET BELOW THE BEGINNING OF THE OPEN SECTION AT THE BASE OF EATON WASH DAM. ELEVATION OF GAGE 839.57 FEET.

DRAINAGE AREA: 9.5 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR, CONCRETE, 12 FEET DEEP AND 26 FEET WIDE WITH 0.5 FOOT FILLETS. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM FOOTBRIDGE AT GAGE.

RECORDER: AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW REGULATED BY EATON WASH DAM.

DIVERSIONS: THE PASADENA WATER DEPARTMENT DIVERTS FLOW ABOVE THE MOUTH OF EATON CANYON.

RECORDS AVAILABLE: RESERVOIR OUTFLOW RECORDS FROM FEBRUARY 2, 1937 TO OCTOBER 10, 1940. RECORDER RECORDS FROM OCTOBER 10, 1940 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM PLUS FLOW AT VARIOUS TIMES.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM PLUS FLOW AT VARIOUS TIMES
MINIMUM NO FLOW MOST OF YEAR
1940-61
MAXIMUM 1080 SECOND-FEET, JANUARY 23, 1943.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: FAIR. SEQUENCE OF GATES OPERATED AT EATON WASH DEBRIS DAM AFFECTS GAGE HEIGHT DISCHARGE RELATION.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76DT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F271-R

Daily discharge, in second-feet of EATON WASH below Eaton Wash Dam, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	+	+	+	0	0	0
2	0	0	0	0	0	0				0	0	0
3	0	0	0	0	0	0				0	0	0
4	0	0	0	0	0	0				0	0	0
5	0	0	0	0	0	0				0	0	0
6	0	0	0	0	0	0				0	0	0
7	0	0	0	0	0	0				0	0	0
8	0	0	0	0	0	0				0	0	0
9	0	0	0	0	0	0			+	0	0	0
10	0	0	0	0	0	+			0	0	0	0
11	0	0	0	0	0		+		0	0	0	0
12	0	0	0	0	0		0		0	0	0	0
13	0	0	0	0	0		0		0	0	0	0
14	0	0	0	0	0		0		0	0	0	0
15	0	0	0	0	0		0		+	0	0	0
16	0	0	0	0	0		0			0	0	0
17	0	0	0	0	0		0			0	0	0
18	0	0	0	0	0		0			0	0	0
19	0	0	0	0	0		0			0	0	0
20	0	0	0	0	0		0			0	0	0
21	0	0	0	0	0		0			0	0	0
22	0	0	0	0	0	+	0			0	0	0
23	0	0	0	0	0	0	0			0	0	0
24	0	0	+	0	0	0	0			0	0	0
25	0	0		0	0	0	0			0	0	0
26	0	0		0	0	0	+			0	0	0
27	0	0		0	0	+				0	0	0
28	0	0		0	0					0	0	0
29	0	0		0	0				+	0	0	0
30	0	0		0		+	+		0	0	0	0
31	0		+	0				+		0	0	
	0		+		0		+		+		0	
		0		0		+		+		0		0
MEAN	0	0	+	0	0	+	+	+	+	0	0	0
ACRE-FEET	0	0	+	0	0	+	+	+	+	0	0	0

Remarks: + = 9.95 CFS OR LESS

YEAR OR PERIOD MEAN +
ACRE-FEET +

76DT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F271-R

Daily discharge, in second-feet of EATON WASH below Eaton Dam, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	+	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	+	+	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	+	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	+	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	+	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		0		+		0		0		0	
		0		+		+		0		0		0
MEAN	0	0	0	+	+	+	0	0	0	0	0	0
ACRE-FEET	0	0	0	+	+	+	0	0	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN +
ACRE-FEET +

STATION F318-R
EATON WASH at Loftus Drive

LOCATION: WATER-STAGE RECORDER. LAT. 34°04'24", LONG. 118°03'18", ON THE RIGHT (WEST) WALL OF EATON WASH CHANNEL 52 FEET ABOVE CENTER LINE OF EAST LOFTUS DRIVE BRIDGE. ELEVATION OF ZERO GAGE HEIGHT 252.21 FEET. FORMER STATION F104B-R LOCATED AT ELLIS LANE.

DRAINAGE AREA: 19.9 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL, RECTANGULAR CONCRETE, 60 FEET WIDE, 11.3 FEET DEEP WITH 0.75 FOOT RISE TO BOTTOM OF LEFT WALL TO KEEP LOW FLOWS AT STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF EAST LOFTUS DRIVE BRIDGE.

RECORDER: A STEVENS TYPE A-35 CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959, TO SEPTEMBER 30, 1961.

REGULATION: PARTIALLY REGULATED BY EATON DAM.

DIVERSIONS: THE PASADENA WATER DEPARTMENT DIVERTS SOME WATER JUST ABOVE THE MOUTH OF EATON CANYON. THE FLOOD CONTROL DISTRICT DIVERTS WATER TO SPREADING GROUNDS BELOW EATON DAM AND BELOW HUNTINGTON DRIVE.

RECORDS AVAILABLE: AT STATIONS F104-R AND F104B-R OCTOBER 1, 1930 TO DECEMBER 27, 1930 AT ELLIS LANE, DECEMBER 28, 1930 TO NOVEMBER 10, 1931; AT BROADWAY, NOVEMBER 10, 1931 TO MAY 4, 1955; AT ELLIS LANE, REMOVED ON MAY 4, 1955 FOR CHANNEL CONSTRUCTION; AT EAST LOFTUS DRIVE, FROM FEBRUARY 23, 1956 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 1090 SECOND-FEET JANUARY 12.
MINIMUM PLUS FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 1200 SECOND-FEET NOVEMBER 25.
MINIMUM 0.1 SECOND-FOOT AT VARIOUS TIMES
1930-61
MAXIMUM 3480 SECOND-FEET JANUARY 6, 1959.
MINIMUM NO FLOW PART OF MOST YEARS.

ACCURACY: GOOD.

OPERATION: CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY. LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F318-R

Daily discharge, in second-feet of EATON WASH above Loftus Drive, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.1	1.6	0.5	0.2	80	15.6	0.9	0.2	0.4	1.5	0.4	1.2
2	2.1	0.3	0.4	0.2	1.9	0.4	1.2	1.2	0.5	1.5	1.5	1.2
3	2.4	0.2	0.4	0.2	0.2	0.4	0.3	0.9	1.5	+	1.8	0.3
4	2.7	0.4	0.3	0.2	0.3	0.3	0.9	0.4	0.4	+	1.5	0.3
5	2.7	0.4	0.2	0.2	0.2	0.3	2.4	0.3	0.3	0.4	1.5	0.3
6	3.0	0.4	0.2	0.3	0.2	0.2	2.4	0.4	0.3	2.1	1.8	0.5
7	3.3	0.2	0.4	0.4	0.2	0.3	2.4	1.5	0.4	1.5	0.3	1.2
8	3.3	0.3	2.4	0.3	37	0.3	1.2	0.3	0.5	2.1	0.5	1.2
9	3.3	0.3	1.0	0.3	0.7	1.5	0.4	1.7	0.4	1.5	1.8	1.2
10	3.6	0.3	0.5	101	8.1	0.4	0.3	2.7	0.6	0.1	1.5	1.5
11	3.6	0.3	0.5	67	0.2	0.3	0.4	2.7	0.2	0.4	1.8	0.2
12	3.6	0.4	0.3	61	0.2	0.3	0.3	2.7	+	0.9	1.5	0.4
13	4.3	0.4	0.2	0.3	0.2	0.3	0.5	3.0	0.3	1.8	1.8	0.9
14	5.0	0.3	0.3	25	0.2	0.4	0.9	0.4	0.6	2.1	0.2	0.9
15	4.3	0.3	0.4	34	0.3	0.6	0.9	0.3	0.9	2.1	0.4	0.6
16	4.3	0.3	0.4	0.3	0.2	0.6	0.5	0.6	0.9	2.1	1.5	0.6
17	4.3	0.3	0.4	0.3	0.2	0.6	0.3	1.5	0.9	0.3	1.2	0.9
18	4.3	0.4	0.6	0.3	0.2	0.9	0.9	0.9	0.3	0.6	1.2	0.2
19	3.6	0.4	0.4	0.3	0.2	0.5	2.4	1.8	0.2	1.2	1.2	0.4
20	3.6	0.4	4.3	0.3	0.2	0.3	2.4	2.4	0.4	1.2	1.5	0.9
21	3.6	0.3	13.3	0.3	0.2	0.3	1.5	0.4	1.8	1.2	0.2	1.2
22	3.6	0.4	0.4	0.4	0.2	0.6	1.3	0.3	1.2	1.5	0.4	0.9
23	3.6	0.4	0.4	0.3	0.3	0.9	0.4	0.4	1.5	1.5	1.2	0.9
24	5.0	0.5	110	0.3	0.4	0.9	0.3	0.3	1.5	0.3	1.5	0.4
25	4.3	0.5	10.2	31	0.2	0.4	0.2	1.0	1.5	0.5	1.5	0.2
26	2.4	0.3	0.3	3.3	0.2	0.2	12.2	1.8	0.3	1.2	1.5	0.4
27	2.1	0.5	0.2	0.2	0.2	3.3	186	1.8	0.4	1.5	1.5	1.2
28	3.0	0.3	0.3	0.2	13.6	12.8	3.3	0.5	1.5	1.2	0.2	1.2
29	2.1	0.3	0.3	0.3	58	0.3	0.2	0.3	0.5	1.2	0.4	1.5
30	0.4	0.4	0.4	0.2		0.2	0.2	0.3	1.5	1.2	1.5	1.2
31	0.4		0.2	0.3		0.3		0.9		0.2	1.5	
	999		1501		2042		2275		217		363	
		118		3289		447		339		349		240
MEAN	3.22	0.39	4.84	10.6	7.04	1.44	7.58	1.09	0.72	1.13	1.17	0.80
ACRE-FEET	198.	23.	298.	652.	405.	89.	451.	67.	43.	69.	72.	48.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 3.33
ACRE-FEET 2420.

760716M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

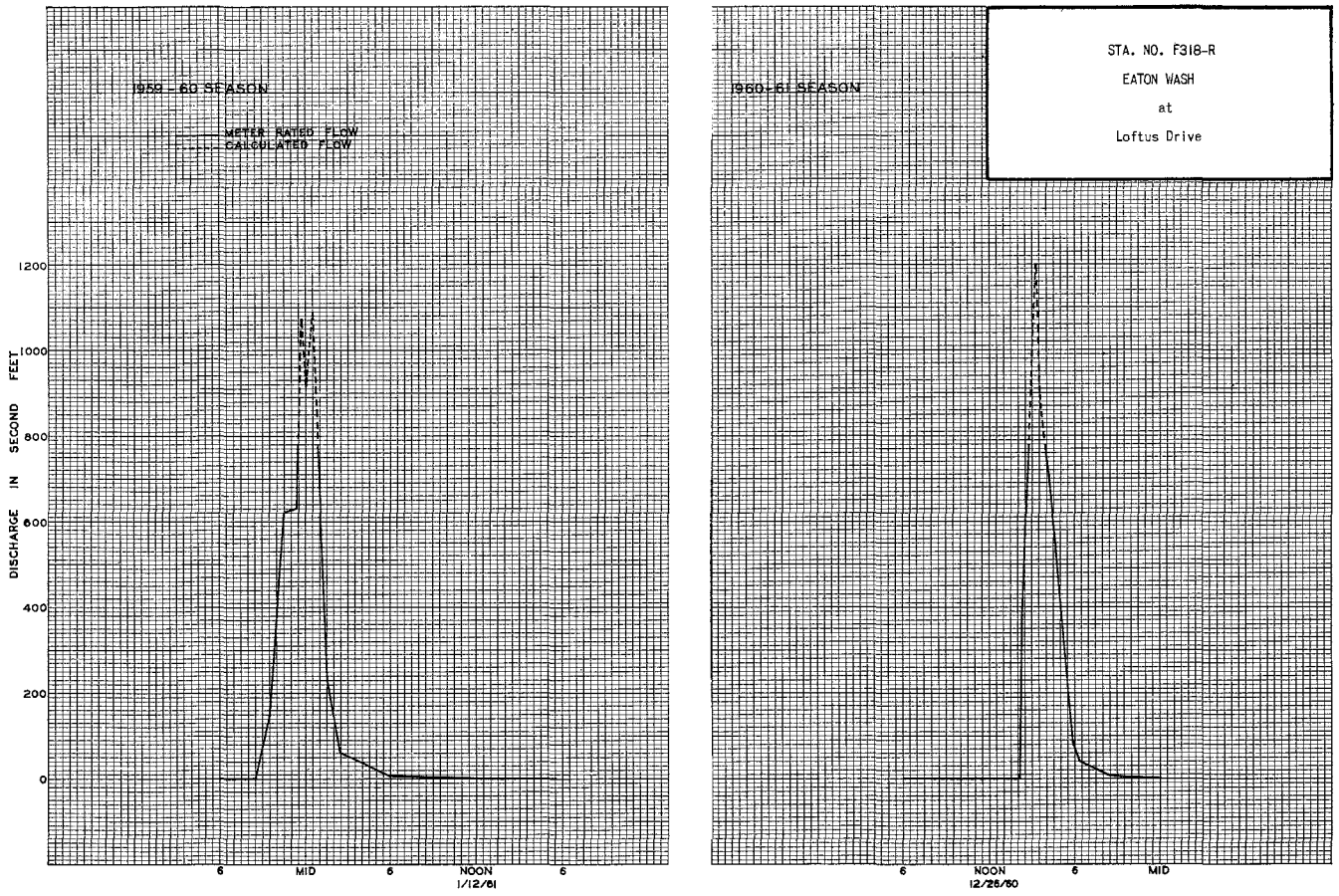
Sta. No. F318-R

Daily discharge, in second-feet of EATON WASH at Loftus Drive, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.6	0.5	0.4	0.3	0.3	0.3	0.5	0.4	1.0	1.5	1.2
2	0.2	0.4	10.9	1.4	0.4	0.3	0.3	0.5	0.9	0.3	0.9	0.4
3	0.4	70	0.3	0.4	0.4	0.3	0.6	0.3	0.2	0.3	0.9	0.2
4	1.2	0.5	0.3	0.5	0.3	0.9	0.9	0.3	0.2	0.3	1.2	0.3
5	1.2	90	0.4	0.4	0.3	0.3	0.3	0.3	0.2	0.8	1.5	1.2
6	1.5	8.7	0.4	0.4	0.3	0.3	2.8	0.3	1.0	1.3	1.5	1.2
7	1.2	0.4	0.3	0.4	0.3	0.3	0.3	0.2	1.4	1.2	1.2	1.5
8	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.6	1.1	1.2	1.2	1.2
9	3.6	0.3	0.4	0.4	0.4	0.3	0.3	0.9	1.0	0.5	1.2	1.5
10	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.9	0.6	1.5	1.2	1.5
11	0.3	0.4	0.4	0.4	0.3	0.2	0.5	0.6	0.2	1.8	1.5	1.2
12	0.1	92	0.4	0.4	0.3	0.2	1.2	0.2	0.6	1.8	1.5	1.2
13	0.3	0.5	0.4	1.1	0.3	0.3	0.9	0.3	0.9	1.5	0.3	1.2
14	0.5	0.4	0.6	0.4	0.2	0.3	0.6	0.2	1.1	1.5	1.5	1.2
15	1.5	0.4	0.4	0.4	0.2	48	0.3	0.3	1.5	1.5	1.8	1.2
16	0.1	0.4	1.2	0.8	0.3	0.2	0.3	0.3	1.2	0.5	1.8	1.2
17	0.4	0.4	0.4	0.5	0.3	0.3	0.5	0.2	1.1	0.9	1.5	0.9
18	1.2	0.4	0.4	0.8	0.1	0.2	0.6	0.2	0.4	1.2	1.5	0.9
19	0.9	0.4	0.4	0.6	0.1	0.2	0.4	0.3	0.8	1.2	2.1	0.5
20	0.9	0.3	0.6	0.4	0.4	0.4	0.3	0.3	0.9	1.2	0.5	0.3
21	0.4	0.4	0.9	0.4	0.4	0.3	0.3	0.3	0.6	1.5	1.5	0.2
22	0.3	0.4	1.2	0.4	0.2	0.3	7.3	0.5	1.1	1.2	1.5	0.3
23	0.2	0.4	0.4	0.4	0.2	0.3	0.2	0.6	1.2	0.3	1.8	0.2
24	0.4	0.3	0.4	0.4	0.2	3.7	0.3	0.5	1.2	0.9	1.8	0.2
25	0.5	0.3	0.4	8.6	0.1	5.0	0.3	0.5	0.5	1.8	1.8	0.3
26	0.3	99	0.4	123	0.1	0.2	0.3	0.6	0.9	1.8	2.1	0.9
27	0.5	0.4	0.4	0.9	0.1	0.3	0.3	0.3	1.2	1.5	0.5	1.2
28	0.6	0.3	0.6	0.3	0.2	2.5	0.3	0.2	1.2	1.5	1.5	0.9
29	0.4	0.4	0.4	0.3		0.4	0.3	0.5	1.5	1.5	1.5	0.4
30	0.4	0.3	0.4	0.3		0.3	0.2	0.5	1.2	0.4	1.5	0.2
31	0.9		0.4	0.4		0.3		0.3		1.2	1.5	
	21.4	369.3	25.6	146.3	7.3	67.6	21.8	12.5	26.3	35.1	43.3	24.8
MEAN	0.69	12.3	0.83	4.72	0.26	2.18	0.73	0.40	0.88	1.13	1.40	0.83
ACRE-FEET	42.	732.	51.	290.	14.	134.	43.	25.	52.	70.	86.	49.

Remarks:

YEAR OR PERIOD MEAN 2.20
ACRE-FEET 1590.



STATION F296-R
EVEY CANYON CREEK at Camp Baldy Road

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'50", LONG. 117°40'52", ON THE RIGHT (SOUTH) WING WALL AT DOWNSTREAM END OF CULVERT UNDER CAMP BALDY ROAD. ELEVATION OF ZERO GAGE HEIGHT ABOUT 2280 FEET.

DRAINAGE AREA: 1.53 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL GENERALLY FILLED WITH SAND, ROCK AND GRAVEL, SUBJECT TO SHIFTING CONDITIONS. THERE IS A SUBMERGED DAM ABOUT 40 FEET DOWNSTREAM THAT ACTS AS A CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS NOT MEASURED.

RECORDER: AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE

DIVERSIONS: NONE

RECORDS AVAILABLE: MEASUREMENTS FROM OCTOBER 21, 1948. CONTINUOUS RECORD FROM DECEMBER 17, 1956 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 1.0 SECOND-FOOT APRIL 27.
MINIMUM NO FLOW PART OF YEAR.
1960-61
MAXIMUM 0.5 SECOND-FOOT JANUARY 26.
MINIMUM NO FLOW VARIOUS DAYS.
1957-61
MAXIMUM 32. SECOND-FEET FEBRUARY 11, 1959.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: POOR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

74D74M Glb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F296-R

Daily discharge, in second-feet of EVEY CREEK at Camp Baldy Road for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	v 0.1	v 0.1	v 0.1	v 0.2	v 0.3	v 0.3	v 0.1	v 0.2	+	+	0	0
2	0.1	0.1	0.1	0.2	0.2	0.3	0.1	0.2		+	0	0
3	0.1	0.1	0.1	0.2	0.2	0.3	0.1	0.2		+	0	0
4	0.1	0.1	0.1	0.3	0.2	0.2	0.1	0.2		0	0	0
5	0.1	0.1	0.1	0.3	0.2	0.2	0.1	0.2		0	0	0
6	0.1	0.1	0.1	0.3	0.2	0.2	0.1	0.1		0	0	0
7	0.1	0.1	0.1	0.3	v 0.2	0.2	0.1	0.1		0	0	0
8	0.1	0.1	0.1	0.3	0.2	0.2	0.1	v 0.1		0	0	0
9	0.1	0.1	0.1	v 0.3	0.4	0.2	0.1	+		0	0	0
10	v 0.1	0.1	0.2	0.5	0.4	0.2	0.1			0	0	0
11	+	0.1	0.2	0.5	v 0.3	0.2	0.1		+	0	0	0
12		0.1	0.2	0.5	0.3	0.2	0.1			0	0	0
13		0.1	0.2	v 0.3	0.3	0.1	0.1	+	v 0.1	0	0	0
14		0.1	0.2	0.2	0.3	0.1	0.1	v 0.1	0.1	0	0	0
15		0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0	0	0
16		0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0	0	0
17		0.1	0.2	0.2	0.2	0.1	v 0.1	0.1	0.1	0	0	0
18		0.1	0.2	0.1	0.2	0.1	+	0.1	v 0.1	0	0	0
19		0.1	0.2	0.1	0.2	0.1		0.1	+	0	0	0
20		0.1	0.2	0.1	0.2	0.1		0.1		0	0	0
21		0.1	0.2	0.1	0.2	0.1		0.1		0	0	0
22		0.1	0.2	0.1	0.1	0.1		0.1		0	0	0
23		0.1	0.2	0.1	0.1	0.1	+	0.1		0	0	0
24		0.1	0.2	0.2	0.1	0.1	v 0.1	0.1		0	0	0
25	+	0.1	0.2	0.2	0.1	0.1	v 0.1	0.1		0	0	0
26	v 0.1	0.1	0.2	0.2	0.1	0.1	v 0.1	0.1		0	0	0
27	0.1	0.1	0.2	0.2	0.1	0.1	0.3	0.1		0	0	0
28	0.1	0.1	0.2	0.2	0.2	0.2	0.5	0.1		0	0	0
29	0.1	0.1	0.2	0.2	v 0.3	0.1	v 0.4	v 0.1		0	0	0
30	0.1	v 0.1	0.2	0.2		0.1	v 0.3	+	+	0	0	0
31	v 0.1		v 0.2	v 0.2		v 0.1		+		0	0	
	1.6		5.3	6.2			3.5		0.6	0		
		3.0		7.1		4.7		2.9		+		0
MEAN	0.05	0.10	0.17	0.23	0.21	0.15	0.12	0.09	0.02	+	0	0
ACRE-FEET	3.2	6.0	11.	14.1	12.	9.3	6.9	5.8	1.2	+	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.10
ACRE-FEET 70.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F296-R

Daily discharge, in second-feet of EVEY CANYON CREEK at Mt. Baldy Road, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	v 0.03	v 0.08	v 0.07	v 0.09	v 0.05	v 0.04	v 0.02	v 0.05	v 0.01	0	0
2	0	0.03	0.08	0.08	0.09	0.05	0.05	0.02	0.05	0.01	0	0
3	0	0.1	0.08	0.08	0.09	0.05	0.05	0.02	0.05	0.01	0	0
4	0	0.05	0.08	0.08	0.09	0.05	0.06	0.02	0.04	0.01	0	0
5	0	0.05	0.09	0.08	0.09	0.04	0.06	0.02	0.04	+	0	0
6	0	0.3	0.09	0.07	0.08	0.04	0.06	0.02	0.04		0	0
7	0	0.1	0.09	0.07	0.08	0.03	0.05	0.01	0.03		0	0
8	0	0.1	0.09	0.06	0.08	0.03	0.05	0.01	0.03	v +	0	0
9	v +	0.1	0.09	0.06	0.08	0.03	0.04	0.01	0.03	0	0	0
10	0.02	0.1	0.09	0.06	0.07	0.03	0.04	0.01	0.02	0	0	0
11	0.02	0.1	0.08	0.06	0.07	0.03	0.03	0.01	0.02	0	0	0
12	0.02	0.8	0.07	0.06	0.06	0.03	0.03	0.02	0.02	0	0	0
13	0.02	0.1	0.06	0.06	0.06	0.03	0.03	0.02	0.01	0	0	0
14	0.02	0.08	0.06	0.06	0.05	0.03	0.02	0.03	0.01	0	0	0
15	0.02	0.06	0.08	0.05	0.05	0.1	0.02	0.03	0.01	0	0	0
16	0.02	0.04	0.08	0.05	0.05	0.05	0.02	0.04	0.01	0	0	0
17	0.03	0.05	0.08	0.05	0.05	0.05	0.02	0.04	0.01	0	0	0
18	0.03	0.05	0.08	0.05	0.05	0.05	0.02	0.05	0.01	0	0	0
19	0.03	0.06	0.08	0.05	0.05	0.04	0.02	0.04	0.01	0	0	0
20	0.03	0.06	0.08	0.05	0.05	0.04	0.02	0.04	0.01	0	0	0
21	0.03	0.07	0.07	0.05	0.04	0.04	0.02	0.03	0.01	0	0	0
22	0.04	0.08	0.07	0.05	0.04	0.04	0.02	0.03	0.01	0	0	0
23	0.04	0.08	0.07	0.05	0.04	0.04	0.01	0.02	0.01	0	0	0
24	0.05	0.08	0.07	0.05	0.04	0.04	0.01	0.02	0.01	0	0	0
25	0.05	0.08	0.06	0.05	0.04	0.04	0.01	0.02	0.01	0	0	0
26	0.05	0.3	0.06	0.5	0.04	0.04	0.01	0.02	0.01	0	0	0
27	0.05	0.2	0.06	0.2	0.05	0.04	0.01	0.02	0.01	0	0	0
28	0.04	0.1	0.06	0.1	v 0.05	0.04	0.01	0.03	0.01	0	0	0
29	0.04	0.08	0.06	0.1		0.04	0.02	0.03	0.01	0	0	0
30	0.04	v 0.08	0.06	0.09		0.04	v 0.02	0.04	v 0.01	0	0	0
31	v 0.03		v 0.07	v 0.09		v 0.04		v 0.04		0	0	
	0.72	3.51	2.31	2.58	1.72	1.29	0.87	0.78	0.60	0.04	0	0
MEAN	0.02	.12	0.07	0.08	0.06	0.04	0.03	0.03	0.02	+	0	0
ACRE-FEET	1.4	7.0	4.6	5.1	3.4	2.4	1.7	1.5	1.2	.08	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.04
ACRE-FEET 29.

STATION U7-R
FISH CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR CONTROL, LAT. 34°10'00", LONG. 117°55'25", IN SW 1/4, SW 1/4, SW 1/4, SEC. 15, T.1N, R.10W, ON LEFT BANK, 0.8 MILE UPSTREAM FROM MOUTH OF CANYON AND THREE MILES NORTHEAST OF DUARTE. ALTITUDE OF GAGE ABOUT 1000 FEET.

DRAINAGE AREA: 6.5 SQUARE MILES.

RECORDS AVAILABLE: JULY TO SEPTEMBER 1916; JULY 1917 TO SEPTEMBER 30, 1961.

AVERAGE DISCHARGE: 44 YEARS (1917-1961) 3.79 SECOND-FEET.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 84. SECOND FEET APRIL 27. (GAGE HEIGHT 8.25 FEET).
MINIMUM NO FLOW SEPTEMBER 6 - 30.
1960-61
MAXIMUM 230 SECOND-FEET NOVEMBER 12, (GAGE HEIGHT 7.65 FEET).
MINIMUM NO FLOW ON MANY DAYS.
1916-61
MAXIMUM DISCHARGE ABOUT 2100 SECOND-FEET, (REVISED) MARCH 2, 1938 AND JANUARY 23, 1943.
MINIMUM NO FLOW DURING PERIODS IN OCCASIONAL YEARS.

REMARKS: RECORDS POOR. NO DIVERSIONS OR REGULATION ABOVE STATION.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH. SEVENTEEN MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

74DT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U7-R

Daily discharge, in second-feet of FISH CREEK above Mouth of Canyon, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.5	0.5	1.2	2.0	4.7	1.6	2.7	0.5	0.1	0.1	0.1
2	0.5	0.5	0.5	1.3	7.1	3.3	1.3	2.6	0.5	0.1	0.1	0.1
3	0.4	0.5	0.5	1.5	6.5	3	1.3	2.3	0.5	0.1	0.1	0.1
4	0.4	0.5	0.5	1.0	6.0	2.9	1.3	2.1	0.5	0.1	0.1	0.1
5	0.4	0.4	0.4	0.8	5.0	2.9	1.0	1.8	0.5	0.1	0.1	0.1
6	0.4	0.4	0.4	0.8	4.0	2.7	0.7	1.7	0.5	0.2	0.1	0
7	0.4	0.4	0.4	0.8	3.0	2.6	0.7	1.7	0.5	0.2	0.1	0
8	0.4	0.4	0.5	0.8	7.0	2.7	0.8	1.7	0.5	0.2	0.1	0
9	0.4	0.4	0.5	0.9	6.5	2.2	0.8	1.7	0.4	0.2	0.1	0
10	0.4	0.4	0.6	4.9	6.0	1.7	0.9	1.7	0.4	0.2	0.1	0
11	0.4	0.4	0.6	3.9	5.0	1.7	1.1	1.5	0.4	0.2	0.1	0
12	0.4	0.4	0.5	7.8	4.5	1.5	0.8	1.4	0.4	0.2	0.1	0
13	0.4	0.5	0.5	6.3	4.0	1.7	0.7	1.3	0.3	0.2	0.1	0
14	0.4	0.4	0.5	6.1	3.5	1.7	0.5	1.2	0.3	0.2	0.1	0
15	0.4	0.5	0.6	5.7	3.0	1.6	0.5	1.1	0.3	0.2	0.1	0
16	0.4	0.5	0.6	4.6	2.5	1.6	0.4	0.9	0.2	0.2	0.1	0
17	0.4	0.5	0.6	3.3	2.2	1.5	0.4	0.9	0.2	0.2	0.1	0
18	0.4	0.5	0.6	3.2	2.2	1.4	0.4	0.9	0.2	0.1	0.1	0
19	0.4	0.5	0.6	2.6	2.1	1.4	0.6	0.8	0.2	0.1	0.1	0
20	0.4	0.5	0.7	2.3	2.1	1.4	0.6	0.6	0.1	0.1	0.1	0
21	0.4	0.5	0.8	2.3	2.0	1.4	0.6	0.6	0.1	0.1	0.1	0
22	0.4	0.4	0.6	2.3	2.1	1.4	1.6	0.6	0.1	0.1	0.1	0
23	0.4	0.4	0.6	2.3	1.5	1.4	1.7	0.7	0.1	0.1	0.1	0
24	0.4	0.4	2.9	2.3	1.2	1.5	1.7	0.7	0.1	0.1	0.1	0
25	0.5	0.4	3.5	2.3	1.1	1.6	1.6	0.6	0.1	0.1	0.1	0
26	0.5	0.4	1.8	2.8	1.1	1.4	1.7	0.5	0.1	0.1	0.1	0
27	0.5	0.5	0.9	1.5	1.1	1.6	1.6	0.5	0.1	0.1	0.1	0
28	0.5	0.5	1.3	1.4	3.1	5.1	0.5	0.1	0.1	0.1	0.1	0
29	0.5	0.5	1.0	1.2	3.4	1.4	3.5	0.5	0.1	0.1	0.1	0
30	0.5	0.5	1.0	1.2		1.4	3.2	0.5	0.1	0.1	0.1	0
31	0.5		1.1	1.0		1.7		0.5		0.1	0.1	
	13.3	13.6	25.9	80.3	99.1	62.1	53.1	36.9	8.4	4.3	3.1	0.5
MEAN	0.43	0.45	0.84	2.59	3.42	2.00	1.77	1.19	0.28	0.14	0.10	0.02
ACRE-FEET	26.	27.	51.	159.	197.	123.	105.	73.	17.	8.5	6.1	1.0

Remarks:

YEAR OR PERIOD MEAN 1.09
ACRE-FEET 794.

74DT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U7-R

Daily discharge, in second-feet of FISH CREEK above Mouth of Canyon, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.1	0.9	0.6	1.0	0.5	0.4	0.2	0.3	0	0	0
2	0	0.3	1.0	0.6	0.9	0.6	0.4	0.2	0.3	0	0	0
3	0.1	3.7	0.9	0.7	1.0	0.6	0.3	0.4	0.3	0	0	0
4	0.1	0.6	0.7	0.7	1.0	0.6	0.4	0.6	0.2	0	0	0
5	0.1	6.0	0.8	0.7	0.9	0.5	0.4	0.5	0.3	0	0	0
6	0.1	6.3	0.8	0.6	0.9	0.5	0.4	0.4	0.3	0	0	0
7	0.1	1.2	0.7	0.6	0.8	0.5	0.4	0.3	0.2	0	0	0
8	0.1	0.8	0.4	0.6	0.8	0.5	0.3	0.3	0.3	0	0	0
9	0.5	0.7	0.4	0.5	0.7	0.5	0.3	0.2	0.3	0	0	0
10	0.7	0.4	0.5	0.5	0.7	0.5	0.3	0.1	0.3	0	0	0
11	0.2	0.4	0.6	0.4	0.7	0.5	0.3	0.1	0.2	0	0	0
12	0.2	17	0.6	0.4	0.7	0.5	0.3	0.1	0.2	0	0	0
13	0.2	14	0.6	0.5	0.7	0.5	0.3	0.1	0.2	0	0	0
14	0.2	2.6	0.6	0.5	0.7	0.5	0.3	0.2	0.2	0	0	0
15	0.2	1.3	0.6	0.4	0.7	1.7	0.2	0.2	0.1	0	0	0
16	0.2	1.0	0.6	0.4	0.7	1.0	0.2	0.2	0.1	0	0	0
17	0.2	1.0	0.6	0.4	0.7	0.7	0.2	0.2	0.1	0	0	0
18	0.2	1.0	0.5	0.4	0.6	0.7	0.3	0.3	0.1	0	0	0
19	0.2	1.0	0.5	0.4	0.5	0.7	0.3	0.3	0.1	0	0	0
20	0.1	1.2	0.6	0.4	0.5	0.7	0.3	0.3	0.1	0	0	0
21	0.1	1.2	0.6	0.4	0.4	0.6	0.3	0.3	0.1	0	0	0
22	0.1	1.2	0.6	0.4	0.4	0.6	1.0	0.3	0.1	0	0	0
23	0.1	1.2	0.6	0.4	0.4	0.6	0.5	0.3	0.1	0	0	0
24	0.1	1.0	0.6	0.4	0.4	0.6	0.4	0.3	0	0	0	0
25	0.1	1.0	0.6	0.6	0.4	1.5	0.3	0.3	0	0	0	0
26	0.1	7.0	0.6	23	0.4	1.0	0.3	0.3	0	0	0	0
27	0.1	3.0	0.6	10	0.3	0.5	0.2	0.3	0	0	0	0
28	0.1	1.2	0.5	7.5	0.3	0.5	0.2	0.3	0	0	0	0
29	0.1	0.9	0.5	3.0		0.4	0.2	0.3	0	0	0	0
30	0.1	0.7	0.4	2.0		0.4	0.2	0.3	0	0	0	0
31	0.1		0.5	1.3		0.4		0.3		0	0	
	4.8	79.0	19.0	59.3	18.2	19.9	9.9	8.5	4.5	0	0	0
MEAN	0.15	2.55	0.61	1.91	0.65	0.64	0.33	0.27	0.15	0	0	0
ACRE-FEET	9.5	157.	38.	118.	36.	39.	20.	17.	8.9	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.61
ACRE-FEET 443.

STATION U12-R
HAINES CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR, LAT. 34°15'50", LONG. 118°16'15", IN NW 1/4 NW 1/4, SEC. 17, T2.N, R.13W, ON RIGHT BANK, 0.5 MILE UPSTREAM FROM MOUTH OF CANYON AND 1.5 MILE NORTHEAST OF TUJUNGA. ALTITUDE OF GAGE ABOUT 2430 FEET.

DRAINAGE AREA: 1.2 SQUARE MILES.

RECORDS AVAILABLE: FEBRUARY 1917 TO SEPTEMBER 1934. OCTOBER 1935 TO SEPTEMBER 30, 1961.

AVERAGE DISCHARGE: 43 YEARS, 0.13 SECOND-FOOT.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 0.6 SECOND-FOOT JANUARY 11, (GAGE HEIGHT 1.23 FEET).
MINIMUM NO FLOW DURING MOST OF YEAR.
1960-61
MAXIMUM 4.3 SECOND-FEET NOVEMBER 5, (GAGE HEIGHT 1.70 FEET).
MINIMUM NO FLOW DURING MOST OF YEAR.
1917-34, 1935-61
MAXIMUM OF RECORD 265 SECOND-FEET MARCH 2, 1938, (GAGE HEIGHT 4.60 FEET). (SEE REMARKS)
MINIMUM NO FLOW AT TIMES DURING MANY YEARS.

REMARKS: RECORDS GOOD. ATTAINED A GAGE HEIGHT OF APPROXIMATELY 11 FEET JANUARY 1, 1934. DISCHARGE NOT DETERMINED.
DIVERSIONS ABOVE STATION FOR DOMESTIC USE.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

76DT43M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U12-R

Daily discharge, in second-feet of HAINES CREEK above Mouth of Canyon, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0 .3	0	0	0	0	0	0	0	0	0	0
6	0	0 .2	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0 .2	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		0		0		0		0		0	
		0 .5		0 .2		0		0		0		0
MEAN	0	0.02	0	0.01	0	0	0	0	0	0	0	0
ACRE-FEET	0	1.0	0	0.4	0	0	0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.002
ACRE-FEET 1.4

STATION F287C-R
LA TUNA CREEK below Debris Basin

LOCATION: WATER-STAGE RECORDER, LAT. 34°14'12", LONG. 118°19'38". ON THE RIGHT (NORTHERLY) BANK APPROXIMATELY 900. FEET BELOW DEBRIS BASIN, AND 3.4 MILES NORTHEAST OF SUN VALLEY. ELEVATION OF ZERO GAGE HEIGHT 1091.58.

DRAINAGE AREA: 5.34 SQUARE MILES

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE CHANNEL 20 FEET WIDE AND 10 FEET DEEP. BOTTOM IS WARPED 0.7 FEET TOWARD STATION.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOW MEASUREMENTS MADE FROM STEEL FOOTBRIDGE 50 FEET ABOVE STATION.

RECORDER: AN HCF RECORDER WAS IN SERVICE AT STATION F287B-R FROM OCTOBER 1, 1959 TO MAY 4, 1960 AND FROM MARCH 2, 1961 TO SEPTEMBER 30, 1961 AT STATION F287C-R.

REGULATION AND/OR DIVERSION: REGULATED BY LA TUNA DEBRIS BASIN.

RECORDS AVAILABLE: AT STATION F287-R-MARCH 13, 1946 TO NOVEMBER 21, 1955.
AT STATION F287B-R - NOVEMBER 21, 1955 TO MAY 4, 1960.
AT STATION F287C-R - FEBRUARY 28, 1961 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:

1959-60
MAXIMUM 2.1 SECOND-FEET FEBRUARY 29.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM NOT DETERMINED.
MINIMUM NO FLOW MOST OF YEAR.
1946-61
MAXIMUM 656 SECOND-FEET JANUARY 16, 1952.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: GOOD

REMARKS: RECORDER NOT IN OPERATION FROM MAY 4, 1960 TO FEBRUARY 28, 1961 DUE TO CHANNEL CONSTRUCTION.

OPERATION: CONSTRUCTED BY THE CORPS OF ENGINEERS. LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M C(b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F287B-R

Daily discharge, in second-feet of LA TUNA CREEK below Debris Basin, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	+	+	0	0				
2	0	0	0	0	+	0	0	0				
3	0	0	0	0	0	0	0	0				
4	0	0	0	0	+	0	0					
5	0	0	0	0	0	0	0					
6	0	0	0	0	0	0	0					
7	0	0	0	0	0	0	0					
8	0	0	0	0	0 .1	0	0					
9	0	0	0	0	0	0	0					
10	0	0	0	+	+	0	0					
11	0	0	0	+	0	0	0					
12	0	0	0	+	0	0	0					
13	0	0	0	0	0	0	0					
14	0	0	0	+	0	0	0					
15	0	0	0	+	0	0	0					
16	0	0	0	0	0	0	0					
17	0	0	0	0	0	0	0					
18	0	0	0	0	0	0	0					
19	0	0	0	0	0	0	0					
20	0	0	0	0	0	0	0					
21	0	0	0	0	0	0	0					
22	0	0	0	0	0	0	0					
23	0	0	0	0	0	0	0					
24	0	0	0	0	0	0	0					
25	0	0	0	+	0	0	0					
26	0	0	0	0	0	0	+					
27	0	0	0	0	0	+	0					
28	0	0	0	0	+	+	0					
29	0	0	0	0	0 2	0	0					
30	0	0	0	0		0	0					
31	0		0	0		0						
	0		0		0 3		+		E 0		E 0	
		0		+		+		E 0		E 0		E 0
MEAN	0	0	0	+	0.01	+	+	E 0	E 0	E 0	E 0	E 0
ACRE-FEET	0	0	0	+	0.6	+	+	E 0	E 0	E 0	E 0	E 0

RECORDER REMOVED MAY 4, DUE TO CHANNEL CONSTRUCTION.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN +
ACRE-FEET 0.6

FORM Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F287C-R

Daily discharge, in second-feet of LA TUNA CREEK below Debris Basin, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	+	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	+	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	+	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	E 0		E 0		E 0	+	+		0		0	
		E 0		E 0		+		0		0		0
MEAN	0	0	0	0	0	+	+	0	0	0	0	0
ACRE-FEET	0	0	0	0	0	+	+	0	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN +
ACRE-FEET +

STATION F65B-R
LITTLE DALTON CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'03", LONG. 117°50'15", ON THE LEFT (EAST) BANK ABOUT 120 FEET ABOVE GLENDORA MOUNTAIN ROAD CROSSING, 0.8 MILE ABOVE MOUTH OF CANYON AND ABOUT 2.6 MILES NORTHEAST OF GLENDORA. ELEVATION OF ZERO GAGE HEIGHT 1334.38.

DRAINAGE AREA: 2.7 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - ROCK AND GRAVEL WITH WIRE RIPRAP ON SIDES. CONTROL - RUBBLE AND CONCRETE CHECK IN CHANNEL BOTTOM.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM BRIDGE CROSSING 122 FEET BELOW STATION.

RECORDER: AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE:
AT STATION F65-R - JANUARY 28, 1929 TO NOVEMBER 23, 1938.
AT STATION F65B-R - NOVEMBER 30, 1938 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 2.2 SECOND-FEET FEBRUARY 8.
MINIMUM NO FLOW AT VARIOUS TIMES
1960-61
MAXIMUM 314 SECOND FEET JANUARY 26.
MINIMUM NO FLOW FOR SEVERAL MONTHS.
1929-61
MAXIMUM 960 SECOND-FEET, ESTIMATED MARCH 2, 1938
MINIMUM NO FLOW SEVERAL MONTHS EACH YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F658-R

Daily discharge, in second-feet of LITTLE DALTON CREEK above Mouth of Canyon, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0.2	+	+	0	0	0	0
2	0	0	0	0	0	0.1	0		0	0	0	0
3	0	0	0	0	+	0.1	0		0	0	0	0
4	0	0	0	0	0	+	0		0	0	0	0
5	0	0	0	0	0		0		0	0	0	0
6	0	0	0	0	0	+	0	+	0	0	0	0
7	0	0	0	0	0	0.1	0	0	0	0	0	0
8	0	0	0	0	0.4	0.1	0	0	0	0	0	0
9	0	0	0	0	0.6	0.1	0	0	0	0	0	0
10	0	0	0	0	0.3	0.1	0	0	0	0	0	0
11	0	0	0	0	0.2	0.1	0	0	0	0	0	0
12	0	0	0	0	0.2	+	0	0	0	0	0	0
13	0	0	0	0	0.1	+	0	0	0	0	0	0
14	0	0	0	0	0.1	0	0	0	0	0	0	0
15	0	0	0	0	+	0	0	0	0	0	0	0
16	0	0	0	0		0	0	0	0	0	0	0
17	0	0	0	0		0	0	0	0	0	0	0
18	0	0	0	0	+	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	+	0	0	0	0	0	0	0
26	0	0	0	0		0	0	0	0	0	0	0
27	0	0	0	0		+	0.1	0	0	0	0	0
28	0	0	0	0	+	0.1	0.5	0	0	0	0	0
29	0	0	0	0	0.1	+	0.3	0	0	0	0	0
30	0	0	0	0		+	0.1	0	0	0	0	0
31	0		0	0		+		0		0	0	
	0		0		2.0		1.0		0		0	
		0		0		1.0		+		0		0
MEAN	0	0	0	0	0.07	.03	.03	+	0	0	0	0
ACRE-FEET	0	0	0	0	4.0	2.0	2.0	+	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN +
ACRE-FEET 8.0

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

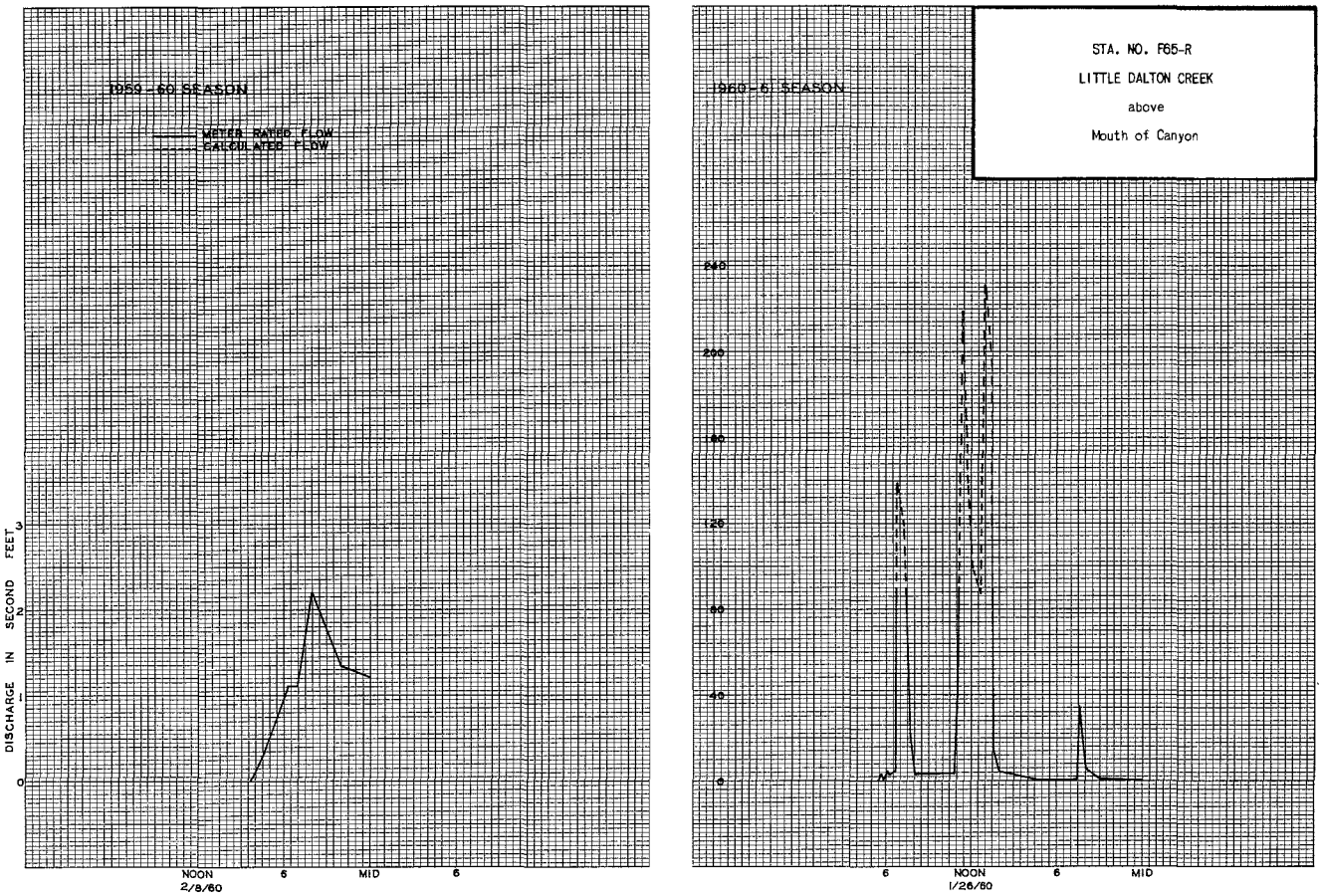
Sta. No. F658-R

Daily discharge, in second-feet of LITTLE DALTON CREEK above Mouth of Canyon, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.01	b 0.1	0.04	+	+	+	0	0	0
2	0	0	+	0.01	0.07	0.02	0.04	+		0	0	0
3	0	0	0	0.01	0.07	0.04	0.1	e 0.01		0	0	0
4	0	0	0	0.01	0.07	0.1	0.1	0.02		0	0	0
5	0	0	0	0.01	0.04	0.07	0.04	0.02		0	0	0
6	0	4.7	0	0.01	0.04	0.07	0.07	0.02		0	0	0
7	0	+	0	0.01	0.07	0.04	0.07	e 0.01		0	0	0
8	0		0	0.01	0.04	0.04	+	+		0	0	0
9	0	+	+	0.01	0.04	0.07	0.2			0	0	0
10	0	+	+	0.01	0.04	0.07	0.2			0	0	0
11	0	0	0	a 0.01	0.02	e 0.07	0.07			0	0	0
12	0	1.0	0	0.01	0.04	0.07	+			0	0	0
13	0	+	0	0.01	0.04	0.07	0.04			0	0	0
14	0	0	0	0.01	0.02	e 0.07	0.07			0	0	0
15	0	0	e 0.01	0.01	+	0.2	0.02		+	0	0	0
16	0	0	0.01	0.01	0.04	0.2	e 0.01		0	0	0	0
17	0	0	0.01	0.01	0.04	0.2	0.01		0	0	0	0
18	0	0	0.01	a 0.01	0.04	0.2	0.01		0	0	0	0
19	0	0	0.01	0.01	0.04	0.1	0.01		0	0	0	0
20	0	0	0.01	0.01	0.04	0.07	0.01		0	0	0	0
21	0	0	e 0.02	0.01	0.04	0.07	0.01		0	0	0	0
22	0	0	0.02	0.01	0.07	0.04	0.01		0	0	0	0
23	0	0	0.02	0.01	0.04	0.04	0.01		0	0	0	0
24	0	0	0.02	0.01	0.04	0.4	0.01		0	0	0	0
25	0	0	0.02	0.01	0.02	0.7	0.01		0	0	0	0
26	0	2.1	0.02	24	0.02	b 0.2	0.01		0	0	0	0
27	0	0	0.01	0.3	0.02	0.2	+		0	0	0	0
28	0	0	0.01	0.1	0.04	0.1			0	0	0	0
29	0	0	e 0.01	0.2		0.1			0	0	0	0
30	0	0	0.01	0.3		b 0.2	e +		0	0	0	0
31	0		0.01	b 0.2		0.3		+		0	0	
	0		0.23		1.19		1.13		+		0	
		16.8		25.35		4.16		0.08		0		0
MEAN	0	0.5	0.01	0.72	0.04	0.13	0.04	0.003	+	0	0	0
ACRE-FEET	0	33.2	0.4	50.	2.4	8.2	2.2	0.2	+	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.13
ACRE-FEET 96.4



STATION L1-R
LITTLE ROCK CREEK above Little Rock Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°27'50", LONG. 118°01'05", ON THE RIGHT (EAST) BANK ABOUT TWO MILES ABOVE LITTLE ROCK PALMDALE IRRIGATION DISTRICT'S DAM, APPROXIMATELY 1500 FEET UPSTREAM FROM SANTIAGO CREEK AND FIVE MILES SOUTH OF LITTLE ROCK. ELEVATION OF GAGE ABOUT 3290 FEET.

DRAINAGE AREA: 49.2 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND BOULDERS.
CONTROL - NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING NEAR GAGE; HIGH FLOWS MEASURED FROM CABLE CAR BELOW GAGE.

RECORDER: A STEVENS A-35 WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

RECORDS AVAILABLE: OCTOBER 1, 1930 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 17.0 SECOND-FEET JANUARY 26.
MINIMUM NO FLOW SEVERAL MONTHS.

1960-61
MAXIMUM 36.6 SECOND-FEET NOVEMBER 6.
MINIMUM NO FLOW SEVERAL MONTHS.
1930-61
MAXIMUM 17000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT TIMES EACH YEAR.

ACCURACY: GOOD.

OPERATION: ORIGINALLY LOCATED AND INSTALLED BY LITTLE ROCK PALMDALE IRRIGATION DISTRICT. REINSTALLED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND OPERATED IN COOPERATION WITH THE U.S.G.S. WATER RESOURCES BRANCH.

FADT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. LIR

Daily discharge, in second-feet of LITTLE ROCK CREEK above Little Rock Dam, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	2.5	1.0	8.6	4.7	6.3	0.6	+	0	0
2	0	0	0	2.3	1.4	7.7	4.5	6.8	0.5	+	0	0
3	0	0	0	2.3	1.3	7.0	4.1	6.5	0.5	0	0	0
4	0	0	+	2.2	1.1	7.0	4.1	6.1	0.5	0	0	0
5	0	0	0.4	2.0	1.0	7.0	3.9	5.2	0.5	0	0	0
6	0	0	0.6	2.2	9.8	7.5	3.6	4.5	0.5	0	0	0
7	0	0	0.8	2.3	1.0	7.9	3.4	3.9	0.5	0	0	0
8	0	0	0.9	2.5	1.1	8.4	3.2	3.8	0.4	0	0	0
9	0	0	1.0	2.5	1.4	8.4	3.2	3.4	0.4	0	0	0
10	0	0	1.1	3.5	1.3	7.9	3.0	3.2	0.4	0	0	0
11	0	0	1.2	9.3	1.1	7.5	3.0	2.6	0.4	0	0	0
12	0	0	1.2	9.9	9.6	7.2	3.0	2.3	0.4	0	0	0
13	0	0	1.2	6.1	8.6	7.2	3.0	2.2	0.4	0	0	0
14	0	0	1.2	4.7	7.7	7.5	2.8	2.0	0.2	0	0	0
15	0	0	1.1	4.3	7.0	7.5	2.8	2.0	0.2	0	0	0
16	0	0	1.1	4.1	6.3	7.2	2.8	2.2	0.1	0	0	0
17	0	0	1.1	3.9	6.1	6.8	2.6	2.2	0.1	0	0	0
18	0	0	1.2	3.8	6.1	6.5	2.6	1.9	0.1	0	0	0
19	0	0	1.2	3.8	5.8	6.3	2.6	1.7	0.1	0	0	0
20	0	0	1.4	3.8	5.4	6.1	2.5	1.6	0.1	0	0	0
21	0	0	2.3	5.9	5.4	5.8	2.2	1.6	0.1	0	0	0
22	0	0	2.3	4.1	5.4	5.8	2.2	1.4	0.1	0	0	0
23	0	0	2.2	6.1	5.2	5.8	2.6	1.7	0.1	0	0	0
24	0	0	4.8	7.7	4.9	5.8	2.8	1.9	0.1	0	0	0
25	0	0	1.0	9.6	4.9	5.8	2.8	1.9	+	0	0	0
26	0	0	6.3	1.5	4.9	5.6	2.8	1.8		0	0	0
27	0	0	4.5	1.3	4.9	5.6	4.3	1.2		0	0	0
28	0	0	3.9	1.1	5.2	5.6	6.5	1.1		0	0	0
29	0	0	3.2	1.1	6.8	5.6	6.3	0.9		0	0	0
30	0	0	3.0	1.0		5.2	5.8	0.8	+	0	0	0
31	0		2.6	1.0		4.9		0.6		0		
	0		61.8		237.0		103.7		7.3		0	
		0		179.4		208.7		85.1		+		0
MEAN	0	0	1.99	5.79	8.17	6.73	3.46	2.75	0.24	+	0	0
ACRE-FEET	0	0	123.	356.	470.	414.	206.	169.	14.	+	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 2.41
ACRE-FEET 1750.

FADT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

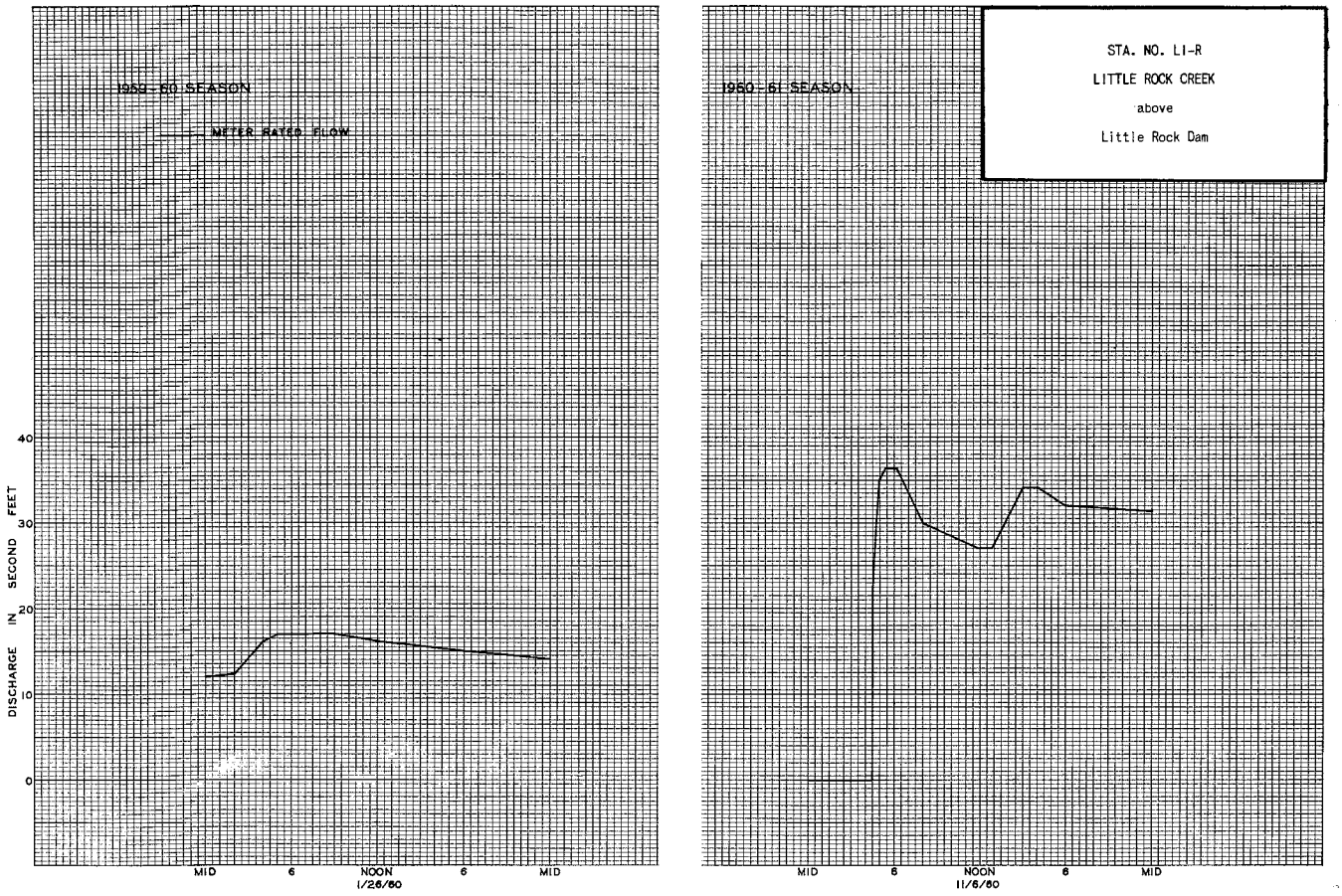
Sta. No. LI-R

Daily discharge, in second-feet of LITTLE ROCK CREEK above Little Rock Dam, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	3.2	2.5	4.9	2.6	2.8	1.1	0.4	+	0	0
2	0	0	4.2	2.5	4.9	2.5	2.8	1.0	0.4		0	0
3	0	0	6.8	2.5	4.7	2.5	2.8	1.0	0.4		0	0
4	0	0	5.6	2.5	4.7	2.6	2.8	1.0	0.4		0	0
5	0	0	4.7	2.5	4.5	2.8	2.5	1.0	0.4		0	0
6	0	2.5	4.3	2.5	4.5	2.8	2.3	1.0	0.2		0	0
7	0	1.9	3.8	2.5	4.5	3.0	2.3	1.0	0.2		0	0
8	0	1.1	3.8	2.5	4.3	3.0	2.2	1.0	0.2		0	0
9	0	7.5	3.8	2.5	4.1	3.0	2.2	1.0	0.2		0	0
10	0	6.1	3.6	2.5	3.9	3.0	2.2	0.9	0.2		0	0
11	0	4.9	3.4	2.5	3.8	2.8	2.0	0.8	0.2	+	0	0
12	0	4.3	3.4	2.5	3.8	2.6	2.0	0.8	0.2	0	0	0
13	0	7.4	3.4	2.5	3.6	2.5	1.9	0.8	0.2	0	0	0
14	0	6.5	3.4	2.5	3.6	2.5	1.9	0.8	0.2	0	0	0
15	0	5.6	3.2	2.5	3.4	2.8	1.6	0.8	0.1	0	0	0
16	0	4.7	3.2	2.5	3.4	3.0	1.6	0.8	0.1	0	0	0
17	0	4.5	3.2	2.5	3.4	2.8	1.6	0.8	0.1	0	0	0
18	0	3.8	3.2	2.5	3.4	2.6	1.6	0.8	0.1	0	0	0
19	0	3.8	c 3.1	2.5	3.2	2.5	1.4	0.6	0.1	0	0	0
20	0	3.4	c 3.1	2.5	3.2	2.3	1.6	0.6	+	0	0	0
21	0	3.4	3.0	2.3	3.2	2.3	1.7	0.6		0	0	0
22	0	3.2	3.0	2.3	3.2	2.3	1.9	0.6		0	0	0
23	0	3.2	3.0	2.3	3.2	2.3	2.2	0.6		0	0	0
24	0	3.0	2.8	2.3	3.0	2.3	2.3	0.6		0	0	0
25	0	3.0	2.6	2.5	3.0	2.3	2.3	0.5		0	0	0
26	0	3.0	2.5	7.5	2.8	2.5	2.2	0.5		0	0	0
27	0	4.1	2.5	1.8	2.8	2.5	2.0	0.5		0	0	0
28	0	3.6	2.5	1.1	2.6	3.0	1.6	0.5		0	0	0
29	0	3.6	2.5	8.6		3.4	1.1	0.5		0	0	0
30	0	3.4	2.5	7.2		3.0	1.1	0.5	+	0	0	0
31	0		2.5	6.1		2.8		0.5		0	0	
	0		105.8		103.6		60.5		4.3		0	
		151.0		120.1		82.9		23.5		+		0
MEAN	0	5.03	3.41	3.87	3.70	2.67	2.02	0.76	0.14	+	0	0
ACRE-FEET	0	300.	210.	238.	205.	164.	120.	47.	8.5	0	0	0

Remarks: + = 0.05 CFS OF LESS

YEAR OR PERIOD MEAN 1.78
ACRE-FEET 1290.



STATION U3-R

LITTLE SANTA ANITA CREEK above Sierra Madre Dam

LOCATION: WATER-STAGE RECORDER AND CONTROL, LAT. 34°11'13", LONG. 118°02'35" IN SE 1/4, SW 1/4, NW 1/4 SEC. 9, T.1N, R.11W, ON RIGHT BANK, 1.3 MILES UPSTREAM FROM SIERRA MADRE DAM, ALTITUDE OF GAGE ABOUT 2200 FEET (FROM TOPOGRAPHIC MAP).

DRAINAGE AREA: 1.9 SQUARE MILES.

RECORDS AVAILABLE: APRIL 1916 TO SEPTEMBER 30, 1961.

AVERAGE DISCHARGE: 45 YEARS (1916-1925, 1926-1961, 0.84 SECOND-FOOT).

EXTREMES OF DISCHARGE:

1959-60
- MAXIMUM 2.3 SECOND-FEET APRIL 26, (GAGE HEIGHT 0.88 FEET).
- MINIMUM NO FLOW ON MANY DAYS.

1960-61
- MAXIMUM 18 SECOND-FEET NOVEMBER 5, (GAGE HEIGHT 1.43 FEET).
- MINIMUM NO FLOW SEVERAL DAYS.

1916-61
- MAXIMUM 536 SECOND-FEET MARCH 2, 1938 COMPUTED ON BASIS OF INFLOW TO SIERRA MADRE FLOOD CONTROL RESERVOIR.
- MINIMUM NO FLOW DURING PERIODS IN SOME YEARS.

REMARKS: RECORDS GOOD, NO DIVERSIONS ABOVE STATION.

COOPERATION: RECORDS FURNISHED BY UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

760724M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U3-R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK above Sierra Madre Dam, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0.1	0.1	0.5	0.7	0.3	0.2	0.2	0.1	0	0
2	0.1	0.1	0.1	0.1	0.3	0.5	0.3	0.2	0.2	0.1	0	0
3	0.1	0.2	0.1	0.1	0.3	0.4	0.3	0.2	0.2	0.1	0	0
4	0.1	0.2	0.1	0.1	0.2	0.4	0.3	0.2	0.2	0.1	0	0
5	0.1	0.2	0.1	0.1	0.2	0.4	0.3	0.2	0.2	0.1	0	0
6	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.2	0.2	0.1	0	0
7	0.1	0.1	0.1	0.1	0.2	0.4	0.3	0.2	0.2	0.1	0	0
8	0.1	0.1	0.1	0.1	0.5	0.3	0.3	0.2	0.2	0.1	0	0
9	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.2	0.2	0.1	0	0
10	0.1	0.1	0.1	0.8	0.3	0.3	0.3	0.2	0.2	0.1	0	0
11	0.1	0.1	0.1	0.7	0.2	0.3	0.3	0.2	0.2	0.1	0	0
12	0.1	0.1	0.1	0.6	0.2	0.3	0.3	0.2	0.1	0.1	0	0
13	0.1	0.1	0.1	0.4	0.2	0.3	0.3	0.2	0.1	0.1	0	0
14	0.1	0.1	0.1	0.4	0.2	0.3	0.3	0.2	0.1	0.1	0	0
15	0.1	0.1	0.1	0.4	0.2	0.3	0.3	0.2	0.1	0.1	0	0
16	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.2	0.1	0.1	0	0
17	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.2	0.1	0.1	0	0
18	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.2	0.1	0	0	0
19	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.2	0.1	0	0	0
20	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.2	0.1	0	0	0
21	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.2	0.1	0	0	0
22	0.1	0.1	0.1	0.3	0.2	0.3	0.4	0.2	0.1	0	0	0
23	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.2	0.1	0	0	0
24	0.1	0.1	0.3	0.3	0.2	0.3	0.3	0.2	0.1	0	0	0
25	0.1	0.1	0.2	0.4	0.2	0.3	0.3	0.2	0.1	0	0	0
26	0.1	0.1	0.1	0.3	0.2	0.3	0.8	0.2	0.1	0.1	0	0
27	0.1	0.1	0.1	0.3	0.2	0.3	0.6	0.2	0.1	0	0	0
28	0.1	0.1	0.1	0.3	0.3	0.3	0.3	0.2	0.1	0	0	0
29	0.1	0.1	0.2	0.2	0.8	0.3	0.3	0.2	0.1	0	0	0
30	0.1	0.1	0.1	0.2		0.3	0.3	0.2	0.1	0	0	0
31	0.1		0.1	0.2		0.3		0.2		0	0	
	3.1	3.3	3.4	8.9	7.5	10.4	9.9	6.2	4.1	1.8	0	0
MEAN	0.10	0.11	0.11	0.29	0.26	0.34	0.33	0.20	0.14	0.06	0	0
ACRE-FEET	6.1	6.5	6.7	18.	15.	21.	20.	12.	8.1	3.6	0	0

Remarks:

YEAR OR PERIOD MEAN 0.16
ACRE-FEET 117.

760724M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U3-R

Daily discharge, in second-feet of LITTLE SANTA ANITA CREEK above Sierra Madre Dam, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
2	0	0.1	0.4	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
3	0	0.4	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
4	0	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
5	0	1.4	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
6	0	0.3	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0	0	0
7	0	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
8	0	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
9	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
10	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
11	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
12	0.1	1.2	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
13	0.1	0.4	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
14	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
15	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0	0	0
16	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
17	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
18	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
19	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
20	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0	0	0
21	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1	0	0	0	0.1
22	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0	0	0	0.1
23	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.1		0	0	0
24	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0	0	0	0
25	0.1	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0	0	0	0
26	0.1	0.2	3.6	0.1	0.2	0.2	0.1	0.1	0	0	0	0
27	0.1	0.3	0.9	0.1	0.1	0.2	0.1	0.1	0	0	0	0
28	0.1	0.2	0.1	0.5	0.1	0.2	0.1	0.1	0	0	0	0
29	0.1	0.2	0.1	0.3		0.2	0.1	0.1	0	0	0	0
30	0.1	0.2	0.1	0.3		0.2	0.1	0.1	0	0	0	0
31	0.1		0.1	0.3		0.2		0.1		0	0	
	2.3	7.8	4.9	8.4	5.4	4.0	3.2	3.1	2.0	0	0	0.2
MEAN	0.07	0.26	0.16	0.27	0.19	0.13	0.11	0.10	0.07	0	0	0.007
ACRE-FEET	4.6	15.	9.7	17.	11.	7.9	6.3	6.1	4.0	0	0	0.4

Remarks:

YEAR OR PERIOD MEAN 0.11
ACRE-FEET 82.

STATION F19-R
LITTLE TUJUNGA WASH at Foothill Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°16'28", LONG. 118°22'20", ON DOWNSTREAM SIDE OF FOOTHILL BOULEVARD BRIDGE, FOUR MILES EAST OF SAN FERNANDO, ELEVATION OF ZERO GAGE HEIGHT, 1067.89 FEET.

DRAINAGE AREA: 21.0 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND SILT. CONCRETE CONTROL BELOW GAGE.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM HIGHWAY BRIDGE.

RECORDER: AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSIONS: NONE KNOWN.

RECORDS AVAILABLE: DECEMBER 26, 1928 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 6.0 SECOND-FEET FEBRUARY 1.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM 266 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW MOST OF YEAR.
1929-61
MAXIMUM 8500 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: GOOD

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

75D74M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F19-R

Daily discharge, in second-feet of LITTLE TUJUNGA WASH at Foothill Boulevard, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0 .6	+	0	0				
2	0	0	0	0	0	0	0	0				
3	0	0	0	0	0	0	0	0				
4	0	0	0	0	0	0	0	0				
5	0	0	0	0	0	0	0	0				RECORDER STOPPED FOR SUMMER
6	0	0	0	0	0	0	0	0				
7	0	0	0	0	0	0	0	0				
8	0	0	0	0	+	0	0	0				
9	0	0	0	0	0	0	0	0				
10	0	0	0	+	0	0	0	0				
11	0	0	0	+	0	0	0	0				
12	0	0	0	+	0	0	0	0				
13	0	0	0	0	0	0	0	0				
14	0	0	0	+	0	0	0	0				
15	0	0	0	+	0	0	0	0				0
16	0	0	0	0	0	0	0	0				0
17	0	0	0	0	0	0	0	0				0
18	0	0	0	0	0	0	0	0				0
19	0	0	0	0	0	0	0	0				0
20	0	0	0	0	0	0	0	0				0
21	0	0	0	0	0	0	0					0
22	0	0	0	0	0	0	0					0
23	0	0	0	0	0	0	0					0
24	0	0	+	0	0	0	0					0
25	0	0	0	+	0	0	0					0
26	0	0	0	0	0	0	+					0
27	0	0	0	0	0	0	0 .1					0
28	0	0	0	0	0	+	0					0
29	0	0	0	0	0	0	0					0
30	0	0	0	0		0	0					0
31	0		0	0		0						
	0		+		0 .6	+	0 .1		E 0		E 0	
		0		+				E 0		E 0		E 0
MEAN	0	0	+	+	0.2	+	+	E 0	E 0	E 0	E 0	E 0
ACRE-FEET	0	0	+	+	1.2	+	0.2	E 0	E 0	E 0	E 0	E 0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN +
ACRE-FEET 1.4

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. 19-R

Daily discharge, in second-feet of LITTLE TUJUNGA WASH at Foothill Boulevard, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0.2	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	9.1	0	0	0	0	0	0	0	0	0	0
6	0	11	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	3.8	0	0	0	0	0	0	0	0	0	0
13	0	0.1	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	1.1	0	1.2	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		0		0		0		0		0	
		25.3		1.2		0		0		0		0
MEAN	0	0.84	0	0.04	0	0	0	0	0	0	0	0
ACRE-FEET	0	50.	0	2.4	0	0	0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.07
ACRE-FEET 52.4

STATION F31-R
LIVE OAK CREEK near Mouth of Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°07'34", LONG. 117°44'40", ON THE RIGHT, (WEST) BANK OF STREAM NEAR MOUTH OF CANYON ABOUT 0.5 MILE BELOW LIVE OAK DAM, AND ABOUT TWO MILES NORTHEAST OF LA VERNE. ELEVATION OF GAGE ABOUT 1335 FEET.

DRAINAGE AREA: 2.6 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND ROCKS.
CONTROL - CONCRETE. A 2-FOOT CIPOLLETTI WEIR 12 INCHES DEEP.

DISCHARGE MEASUREMENTS. LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM BRIDGE 350 FEET BELOW STATION.

RECORDER: AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW REGULATED BY LIVE OAK DAM.

DIVERSIONS: NONE.

RECORDS AVAILABLE: JANUARY 4, 1928 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM NO FLOW ENTIRE SEASON.
MINIMUM NO FLOW ENTIRE SEASON.
1960-61
MAXIMUM NO FLOW ENTIRE SEASON
MINIMUM NO FLOW ENTIRE SEASON
1928-61
MAXIMUM 257 SECOND-FEET MARCH 2, 1938.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: EXCELLENT.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

STATION F311-R
LIVE OAK WASH below 7th Street, La Verne

LOCATION: WATER-STAGE RECORDER. LAT. 34°06'17", LONG. 117°46'17", ON THE LEFT (EAST) WALL OF LIVE OAK WASH BELOW 7TH STREET IN THE CITY OF LA VERNE. ALTITUDE OF GAGE 1049.42.

CHANNEL AND CONTROL: CHANNEL-RECTANGULAR CONCRETE 17.3 FEET WIDE, 9.8 FEET DEEP. CONTROL - VERTICAL FACED SHARP-CRESTED WEIR WITH END CONTRACTIONS SUPPRESSED.

DISCHARGE MEASUREMENTS: FLOWS MEASURED FROM FOOTBRIDGE BELOW WEIR. MEASUREMENTS MADE FOR PURPOSE OF RATING WEIR.

RECORDER: A STEVENS A-35 RECORDER WAS IN SERVICE FROM SEPTEMBER 19, 1960 TO OCTOBER 31, 1961.

REGULATION: METROPOLITAN WATER DISTRICT'S DELIVERY LINE INTO LIVE OAK CHANNEL ABOVE STATION.

ACCURACY: EXCELLENT.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

REMARKS: THIS STATION AND WEIR INSTALLED TO DETERMINE THE QUANTITY OF IMPORTED WATER DELIVERED TO PUDDINGSTONE RESERVOIR. RECORD AS PUBLISHED IS DELIVERED WATER ONLY AND DOES NOT INCLUDE LOCAL WATER OR STORM FLOWS. RECORDER IN SERVICE ONLY DURING PERIOD OF SUCH DELIVERY. FLOWS FROM SEPTEMBER 22, 1960 WERE ZONE I WATER FOR SPREADING IN THE SAN GABRIEL RIVER. FLOWS IN MAY, JULY, AND AUGUST 1961 WERE PURCHASED BY LOS ANGELES COUNTY PARKS AND RECREATION DEPARTMENT FOR STORAGE IN PUDDINGSTONE RESERVOIR.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F311-R

Daily discharge, in second-feet of LIVE OAK WASH below 7th Street, LaVerne for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	8.6
23	0	0	0	0	0	0	0	0	0	0	0	29.8
24	0	0	0	0	0	0	0	0	0	0	0	35.2
25	0	0	0	0	0	0	0	0	0	0	0	11.6
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	20.9
29	0	0	0	0	0	0	0	0	0	0	0	47.3
30	0	0	0	0	0	0	0	0	0	0	0	80.3
31	0		0	0		0		0		0	0	
	0		0		0		0		0		0	
		0		0		0		0		0		233.7
MEAN	0	0	0	0	0	0	0	0	0	0	0	7.79
ACRE-FEET	0	0	0	0	0	0	0	0	0	0	0	463.5

Remarks:

YEAR OR PERIOD MEAN 0.64
ACRE-FEET 463.5

76DT4M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F311-R

Daily discharge, in second-feet of LIVE OAK WASH at 7th and "B" Street, La Verne, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	104.4	130.5	0	0	0	0	0	0	0	0	95.9	0
2	111.0	152.2	0	0	0	0	0	0	0	0	37.1	0
3	111.0	162.1	0	0	0	0	0	0	0	0	0	0
4	110.0	81.2	0	0	0	0	0	0	0	0	0	0
5	105.2	0	0	0	0	0	0	0	0	0	0	0
6	90.6	0	0	0	0	0	0	0	0	0	0	0
7	74.3	0	0	0	0	0	0	0	0	0	0	0
8	82.3	0	0	0	0	0	0	0	0	0	0	0
9	105.0	0	0	0	0	0	0	0	0	0	0	0
10	140.0	0	0	0	0	0	0	0	0	0	0	0
11	150.0	0	0	0	0	0	0	0	0	0	0	0
12	140.0	0	0	0	0	0	0	0	0	0	0	0
13	130.1	0	0	0	0	0	0	0	0	0	0	0
14	131.1	79.4	0	0	0	0	0	0	0	0	0	0
15	130.6	186.8	0	0	0	0	0	0	0	0	0	0
16	111.0	198.0	0	0	0	0	0	0	0	0	0	0
17	94.8	198.0	0	0	0	0	0	26.1	0	0	0	0
18	90.6	102.7	0	0	0	0	0	48.4	0	0	0	0
19	100.1	0	0	0	0	0	0	48.4	0	0	0	0
20	106.2	0	0	0	0	0	0	49.2	0	0	0	0
21	98.6	0	0	0	0	0	0	49.2	0	0	0	0
22	86.2	0	0	0	0	0	0	50.0	0	0	0	0
23	81.4	0	0	0	0	0	0	50.0	0	0	0	0
24	93.9	0	0	0	0	0	0	50.0	0	0	0	0
25	100.6	0	0	0	0	0	0	32.2	0	0	0	0
26	104.7	0	0	0	0	0	0	0	0	0	0	0
27	112.0	0	0	0	0	0	0	0	0	0	0	0
28	123.3	0	0	0	0	0	0	0	0	8.2	0	0
29	129.0	0	0	0		0	0	0	0	24.1	0	0
30	129.0	0	0	0		0	0	0	0	24.1	0	0
31	122.7		0	0		0		0		61.1	0	
	3397.7	1290.9	0	0	0	0	0	403.5	0	1175	133.0	0
MEAN	109.6	43.0	0	0	0	0	0	13.0	0	3.79	4.29	0
ACRE-FEET	6739.2	2560.5	0	0	0	0	0	800.3	0	233.1	263.8	0

Remarks:

YEAR MEAN 14.6
OR PERIOD ACRE-FEET 10,596.9

STATION EGC-R
LOS ANGELES RIVER below Sepulveda Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'42", LONG. 118°27'57", ON THE RIGHT (SOUTH) BANK OF OUTLET CHANNEL OF SEPULVEDA DAM, 200 FEET UPSTREAM FROM SEPULVEDA BOULEVARD, ALTITUDE OF GAGE 670 FEET.

DRAINAGE AREA: 155 SQUARE MILES.

RECORDS AVAILABLE: OCTOBER 28, 1953 TO SEPTEMBER 1961. AT STATIONS F5-R AND F5B-R, FROM DECEMBER 19, 1923 TO MARCH 3, 1938 AND FROM APRIL 28, 1938 TO MARCH 27,1952

AVERAGE DISCHARGE: 31 YEARS (1929-61) 20.3 SECOND-FEET.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 5320 SECOND-FEET JANUARY 11. (GAGE HEIGHT 5.58 FEET.)
MINIMUM DAILY DISCHARGE 2.4 SECOND-FEET OCTOBER 12, 13.
1960-61
MAXIMUM 5770 SECOND-FEET NOVEMBER 5 (GAGE HEIGHT 5.86 FEET.)
MINIMUM 1.4 SECOND-FEET APRIL 23.
1929-61
MAXIMUM 10,300 SECOND-FEET DECEMBER 15, 1957,(GAGE HEIGHT 8.45 FEET).
12,000 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW SEPTEMBER 19-20, 1930.

REMARKS: RECORDS GOOD. FLOW REGULATED BY SEPULVEDA FLOOD CONTROL RESERVOIR (CAPACITY, 17,400 ACRE-FEET). SOME DIVERSION ABOVE STATION. CITY OF LOS ANGELES DISCHARGED 3580 ACRE-FEET OF IMPORTED OWENS RIVER WATER FROM CHATSWORTH RESERVOIR INTO LOS ANGELES RIVER ABOVE STATION DURING 1959-60 AND IN 1960-61 SUCH DISCHARGES AMOUNTED TO 1360 ACRE FEET.

COOPERATION: RECORDS FURNISHED BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY AND THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH. 55 DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

F6D74M C1b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E5C-R

Daily discharge, in second-feet of LOS ANGELES RIVER below Sepulveda Dam, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.4	5.4	9.7	7.4	643	22	7.4	5.4	10	25	39	16
2	3.2	5.4	9.7	8.1	149	3.7	7.4	9.7	11	26	39	16
3	3.2	5.4	9.7	8.1	9.7	5.4	8.1	6.4	25	28	37	16
4	3.2	6.0	8.9	7.4	5.4	8.9	8.1	2.8	26	28	36	14
5	2.8	5.4	8.1	7.4	4.8	8.9	8.1	5.2	26	28	36	4.8
6	2.8	6.0	8.1	8.1	4.8	9.7	8.9	8.9	22	26	37	4.8
7	3.2	7.4	8.9	8.1	4.8	9.7	8.9	8.1	22	22	37	3.7
8	3.7	7.4	9.7	8.9	97	8.9	8.9	8.1	22	22	37	3.7
9	3.2	6.7	4.8	22	31	8.9	8.9	7.4	22	25	39	3.7
10	3.2	6.7	5.4	785	16	11	8.9	8.9	25	25	44	3.7
11	2.8	7.4	5.4	266	4.2	9.7	8.9	8.1	31	26	34	4.2
12	2.4	8.9	5.4	355	4.2	9.7	8.9	8.1	31	26	10	4.8
13	2.4	8.9	4.8	4.2	5.4	9.7	8.9	8.1	32	28	9.7	6.0
14	2.8	8.9	4.8	128	6.7	9.7	8.9	8.1	32	28	8.9	7.4
15	2.8	8.9	5.4	74	12	8.9	7.4	8.9	32	28	10	5.4
16	2.8	8.9	6.0	3.7	12	8.9	8.1	9.7	31	26	21	5.4
17	3.7	9.7	6.0	3.7	9.7	8.1	8.9	9.7	31	24	25	3.7
18	3.7	10	6.0	5.0	9.7	8.9	9.7	10	22	24	20	4.2
19	3.7	10	6.0	4.2	8.9	8.9	9.7	10	24	28	12	4.8
20	6.0	9.7	7.4	4.8	8.1	8.9	10	10	24	28	9.7	4.2
21	6.0	9.7	31	4.6	8.1	8.9	8.9	9.7	25	28	9.7	4.8
22	5.4	9.7	5.4	5.4	8.1	9.7	8.9	8.9	26	28	9.7	3.7
23	5.4	10	4.8	4.8	7.4	9.7	8.1	8.1	26	30	9.7	3.7
24	5.4	10	397	4.8	7.4	10	8.1	8.1	26	30	12	3.7
25	5.4	10	23	95	7.4	9.7	8.1	8.1	22	30	14	3.7
26	5.4	9.7	8.1	18	7.4	9.7	24	8.1	21	24	36	3.7
27	5.4	8.9	7.4	6.7	8.1	12	518	7.4	21	32	46	3.2
28	6.0	8.9	6.7	6.7	57	43	37	7.4	21	30	39	3.7
29	4.2	8.9	8.1	5.4	129	5.6	3.7	6.7	21	26	10	3.7
30	5.4	9.7	9.7	5.4		12	2.8	6.7	22	41	12	3.2
31	5.4		9.7	5.4		8.1		7.4		41	24	
	126.4	248.6	651.1	1881.3	1286.3	326.9	800.6	248.2	732.00	861	763.4	173.6
MEAN	4.08	8.29	21.0	60.7	44.4	10.5	26.7	8.01	24.4	27.8	24.6	5.79
ACRE-FEET	251.	493.	1290.	3730.	2550.	648.	1590.	492.	1450.	1710.	1510.	344.

Remarks:

YEAR OR PERIOD MEAN 22.1
ACRE-FEET 16,060

F6D74M C1b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E5C-R

Daily discharge, in second-feet of LOS ANGELES RIVER below Sepulveda Dam, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	4.2	5.4	3.7	3.2	8.9	7.4	6.7	9.7	8.9	9.7	2.8
2	2.6	4.8	19	3.2	3.7	9.8	7.4	7.4	9.7	8.9	9.7	2.8
3	2.6	57	3.2	3.7	3.7	8.1	7.4	6.7	9.7	8.9	8.9	2.8
4	2.4	10	3.7	4.2	4.8	8.1	9.7	6.7	8.9	8.9	8.1	2.8
5	3.2	605	3.2	3.7	4.8	7.4	12	6.7	8.9	8.1	14	17
6	3.7	330	3.7	2.8	5.4	7.4	14	6.7	8.9	8.9	16	6.7
7	6.7	9.7	3.7	2.8	6.0	7.4	2.0	6.7	8.1	9.7	16	7.4
8	6.0	4.8	4.2	2.8	7.4	6.7	3.8	6.7	8.1	8.9	20	15
9	6.0	4.8	3.7	3.7	9.7	6.7	7.4	7.4	7.4	8.9	22	2.8
10	6.7	4.8	3.2	3.2	10	6.7	6.7	7.4	6.7	8.9	22	2.8
11	6.7	5.4	2.8	2.8	8.9	6.0	7.4	6.7	6.7	12	79	2.8
12	7.4	101	3.7	3.2	8.1	6.0	8.1	6.7	7.4	12	2.0	19
13	7.4	12	4.8	3.2	7.4	6.0	7.4	6.7	7.4	12	2.4	7.4
14	6.0	4.2	5.4	2.0	7.4	4.8	6.7	6.7	7.4	12	4.4	6.0
15	6.0	4.8	4.2	2.0	7.4	79	6.7	6.7	8.1	8.9	9.7	7.4
16	6.7	4.2	3.2	2.0	4.8	5.4	7.4	6.7	8.1	8.1	15	6.7
17	8.1	4.2	3.2	2.4	3.7	8.9	8.9	6.7	7.4	8.1	21	7.4
18	8.1	5.4	3.2	2.8	6.7	7.4	7.4	6.7	7.4	8.1	22	8.9
19	8.1	4.8	3.7	2.8	6.7	7.4	6.7	6.0	6.7	8.1	17	8.1
20	8.1	4.2	3.7	2.8	15	8.1	6.7	6.0	7.4	8.1	20	8.1
21	8.1	5.6	4.2	2.8	8.1	8.1	6.7	5.4	7.4	8.9	22	7.4
22	6.7	6.0	3.7	2.8	8.1	8.1	37	6.0	6.7	8.9	25	7.3
23	6.7	6.0	3.7	2.8	8.1	8.1	1.4	6.0	8.1	8.1	25	24
24	6.7	4.2	3.7	2.8	8.9	9.7	1.5	7.4	8.1	8.1	16	25
25	6.7	3.7	3.7	40	8.9	6.6	4.8	8.1	8.1	8.1	6.2	26
26	6.7	261	3.7	643	8.9	4.0	5.4	8.1	8.9	8.9	26	28
27	6.0	14	3.7	8.7	8.9	8.1	6.0	8.1	8.9	8.9	26	24
28	2.8	4.2	3.7	3.2	8.9	7.6	6.7	8.1	9.7	9.7	28	25
29	2.8	5.4	3.7	3.2		4.9	6.7	8.9	8.9	8.9	28	25
30	3.2	5.4	4.8	3.2		8.1	6.7	8.9	8.9	9.7	28	25
31	3.7		3.7	3.2		7.4		10		9.7	28	
	175.8	1500.8	133.2	775.5	203.6	296.9	234.1	219.7	243.8	284.3	597.1	537.8
MEAN	5.67	50.0	4.30	25.0	7.27	9.58	7.80	7.09	8.13	9.17	19.3	17.9
ACRE-FEET	349.	2980.	264.	1540.	404.	589.	464.	436.	484.	564.	1180.	1070.

Remarks:

YEAR OR PERIOD MEAN 14.3
ACRE-FEET 10,320.

STATION F299-R
LOS ANGELES RIVER at Radford Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°08'51", LONG. 118°23'30", ON THE LEFT (NORTH) CHANNEL WALL, 120 FEET BELOW RADFORD AVENUE BRIDGE, ELEVATION OF ZERO GAGE HEIGHT, 572.44 FEET.

DRAINAGE AREA: 183.0 SQUARE MILES.

CHANNEL AND CONTROL: RECTANGULAR CONCRETE CHANNEL 60 FEET WIDE AND 15 FEET DEEP, CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS. LOW FLOWS MEASURED BY WADING.

RECORDER: A STEVENS TYPE A-35B CONTINUOUS RECORDER IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION AND/OR DIVERSIONS: SUBJECT TO SAME REGULATION AS STATION E5C-R.

RECORDS AVAILABLE: RECORDER RECORDS FROM FEBRUARY 21, 1950 TO SEPTEMBER 30, 1961.

PURPOSE: FOR HYDRAULIC STUDIES ONLY. HIGH FLOW DISCHARGE MEASUREMENTS ARE NOT MADE NOR DAILY FLOWS COMPUTED.

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY. OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

STATION F300-R
LOS ANGELES RIVER at Tujunga Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°08'28", LONG. 118°22'44", ON THE LEFT (NORTH) CHANNEL WALL 200 FEET ABOVE TUJUNGA AVENUE BRIDGE, ELEVATION OF ZERO GAGE HEIGHT 549.08 FEET.

DRAINAGE AREA: 408 SQUARE MILES.

CHANNEL AND CONTROL: RECTANGULAR CONCRETE CHANNEL 120 FEET WIDE AND 15 FEET DEEP WITH A RECTANGULAR INVERT 12 FEET WIDE AND 3.17 FEET DEEP. INVERT HAS A VENTURI CONTROL SECTION 30 FEET BELOW STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED BY CABLE CAR AT GAGE.

RECORDER: A STEVENS TYPE A-35 CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION AND/OR DIVERSIONS: SUBJECT TO SAME REGULATION AS STATION E5C-R AND STATION F105B-R.

RECORDS AVAILABLE: MAY 8, 1950 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 6900 SECOND-FEET JANUARY 12.
MINIMUM 2.5 SECOND-FEET OCTOBER 30.
1960-61
MAXIMUM 6600 SECOND-FEET NOVEMBER 5.
MINIMUM 2.4 SECOND-FEET APRIL 24.
1950-61
MAXIMUM 13220 SECOND-FEET JANUARY 15, 1952.
MINIMUM 2.3 SECOND-FEET VARIOUS TIMES IN 1950-51.

ACCURACY: GOOD.

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY. OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

76D74M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F300-R

Daily discharge, in second-feet of LOS ANGELES RIVER at Tujunga Avenue, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	45	50	79	53	858	41	79	52	98	27	32	140
2	53	48	77	71	189	73	79	89	89	27	33	140
3	57	52	77	73	118	74	81	77	23	26	36	140
4	50	55	83	71	73	100	83	41	26	25	33	140
5	46	55	81	71	59	100	87	50	26	26	34	81
6	46	57	79	80	57	93	91	91	27	26	37	55
7	48	67	79	81	53	100	85	91	27	26	35	57
8	55	63	115	81	149	89	83	85	27	27	37	48
9	65	65	63	24	57	91	85	81	27	26	41	48
10	67	69	82	1040	35	108	85	85	27	26	56	45
11	69	75	55	328	61	95	85	83	27	26	49	43
12	75	87	55	613	57	89	83	81	26	27	180	46
13	79	83	53	78	55	87	89	81	26	27	180	52
14	81	87	50	147	55	89	89	81	26	26	170	65
15	67	83	58	101	102	87	79	79	28	28	180	52
16	53	83	61	74	102	89	81	83	26	28	27	48
17	59	89	53	55	100	89	81	81	27	27	29	41
18	57	89	53	72	102	91	77	81	26	27	26	46
19	57	91	52	65	98	87	75	81	27	33	170	53
20	59	87	53	69	93	91	75	88	27	35	140	46
21	69	85	40	63	95	89	75	85	28	35	120	50
22	61	81	59	61	98	93	79	77	28	35	120	43
23	57	79	52	59	96	93	75	73	27	34	120	46
24	57	79	691	50	89	105	73	73	27	33	120	48
25	50	85	30	143	91	100	77	75	26	33	140	45
26	52	81	69	20	93	89	95	79	26	28	30	45
27	52	77	55	63	91	160	925	79	26	33	42	40
28	57	79	53	53	91	89	670	77	26	30	38	45
29	50	77	57	53	276	66	57	73	26	26	120	48
30	50	79	83	71		117	45	73	26	33	130	46
31	45		81	73		83		87		32	20	
	2193		9477		18390		13003		7607		8240	
		2237		25700		4017		2412		898.0		1842
MEAN	7.07	7.46	30.6	82.9	63.4	13.0	43.3	7.80	25.4	29.0	26.6	6.14
ACRE-FEET	435.	444.	1900.	5100.	3648.	797.	2580.	478.	1509.	1780.	1630.	365.

Remarks:

YEAR OR PERIOD MEAN 28.
ACRE-FEET 20650.

76D74M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

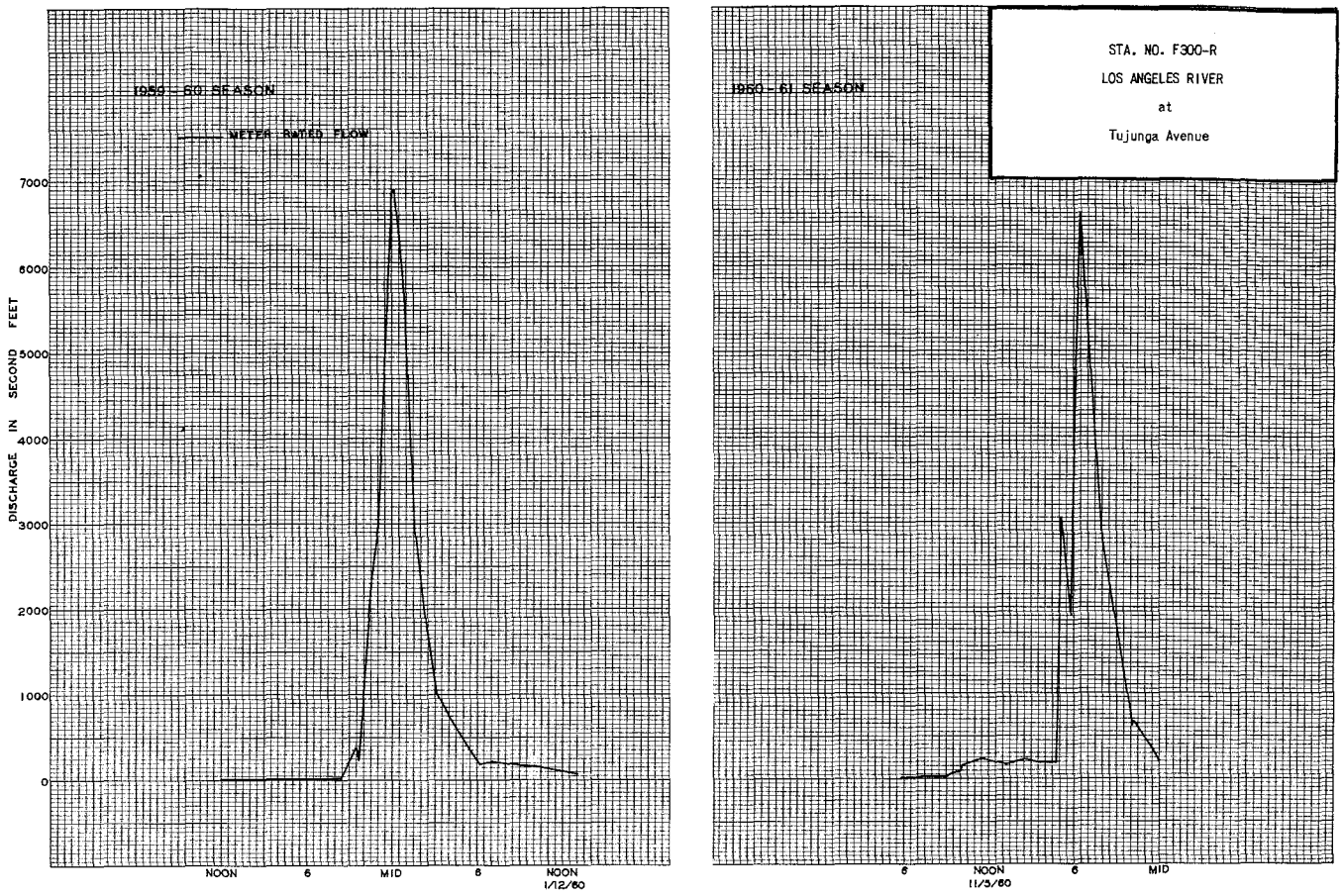
Sta. No. F300-R

Daily discharge, in second-feet of LOS ANGELES RIVER at Tujunga Avenue, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	41	46	48	33	43	71	75	95	83	79	91	26
2	40	50	47	35	52	97	73	98	83	81	100	25
3	40	120	41	35	43	79	73	83	89	83	95	25
4	40	194	41	48	50	77	83	79	83	69	89	25
5	43	756	48	41	50	69	85	79	85	69	135	199
6	52	383	40	41	53	69	25	81	91	77	172	91
7	87	129	33	48	73	90	50	81	79	83	185	91
8	83	65	50	48	69	80	53	87	79	83	23	126
9	77	55	41	53	92	113	79	89	79	77	26	25
10	73	52	40	59	87	103	81	89	77	81	27	25
11	75	52	35	52	85	77	79	89	73	93	180	26
12	83	204	41	57	79	75	87	83	77	102	45	22
13	83	37	50	65	87	75	83	83	75	100	38	96
14	77	59	59	48	75	75	90	83	79	102	41	71
15	69	55	59	43	75	120	83	83	83	93	100	79
16	69	43	45	45	180	74	77	89	83	89	122	88
17	81	36	40	46	60	95	85	81	77	93	25	81
18	81	46	36	59	77	85	81	83	77	100	26	83
19	81	40	41	48	71	79	79	91	79	93	198	81
20	77	36	40	48	91	79	93	91	85	100	83	83
21	79	40	46	41	85	77	93	85	85	102	84	81
22	75	41	48	40	81	81	99	89	79	100	27	77
23	73	48	48	52	73	81	41	89	89	93	26	25
24	79	43	36	43	79	89	38	89	89	93	22	26
25	79	38	36	68	79	118	69	93	89	95	91	26
26	81	414	33	1009	73	35	69	91	87	95	24	28
27	81	24	38	160	71	75	79	97	89	87	25	26
28	38	52	40	48	71	81	89	81	89	100	26	25
29	40	48	41	36		49	89	75	83	85	26	26
30	36	43	40	195		81	89	77	83	83	25	26
31	38		36	46		77		83		87	27	
	2051		1740		2107		3379		2478		7322	
		20691		12707		3606		2666		2767		5397
MEAN	6.62	69.0	5.61	41.0	7.51	11.6	11.3	8.60	8.26	8.92	23.6	18.0
ACRE-FEET	407.	4100.	345.	2520.	417.	715.	670.	529.	492.	549.	1450.	1070.

Remarks:

YEAR OR PERIOD MEAN 18.3
ACRE-FEET 13260.



STATION F266-R
LOS ANGELES RIVER at Mariposa Street

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'17", LONG. 118°18'40", ON THE LEFT (NORTH) CHANNEL WALL ABOUT 60 FEET EAST FROM THE CENTER LINE OF MARIPOSA STREET EXTENDED, AND ABOUT TWO MILES SOUTHEAST OF BURBANK. ELEVATION OF ZERO GAGE HEIGHT, 468.61 FEET.

DRAINAGE AREA: 430 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - CONCRETE. 130 FEET WIDE WITH 18-FOOT VERTICAL SIDE WALLS. BOTTOM FORMS A REGULAR TRAPEZOIDAL SECTION 130 FEET X 82 FEET X 1.1 FEET WITH 0.5 FOOT FILLETS.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM EQUESTRIAN BRIDGE 70 FEET ABOVE STATION.

RECORDER: AN AU RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: SUBJECT TO SAME REGULATION AS STATION F300-R.

DIVERSIONS: THE LOS ANGELES WATER DEPARTMENT DIVERTS FLOW FOR SPREADING ABOVE THE STATION.

RECORDS AVAILABLE: FROM DECEMBER 20, 1938 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 6930 SECOND-FEET JANUARY 12.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 7400 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW AT VARIOUS TIMES
1938-61
MAXIMUM 12740 SECOND-FEET JANUARY 18, 1952.
MINIMUM NO FLOW AT TIMES WHEN LOS ANGELES WATER DEPARTMENT IS DIVERTING FLOW.

ACCURACY: POOR.

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN CONJUNCTION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F266-R

Daily discharge, in second-feet of LOS ANGELES RIVER at Mariposa Street, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	e 56	e 60	0	0	888	37	0	0	0	0	0	e 20
2	64	40	0	0	v 230	0	0	0	0	0	0	20
3	68	30	0	0	v 150	0	0	0	+	0	0	20
4	60	10	0	0	96	0	0	0	e 14	0	0	20
5	55	66	0	0	0	0	0	0	0	0	0	10
6	55	30	0	0	0	0	0	e 20	0	0	0	05
7	58	e 10	0	0	0	0	0	0	0	0	0	15
8	66	0	e 25	0	172	0	39	0	0	0	0	e +
9	78	0	100	e 15	58	0	31	0	0	0	0	0
10	80	0	100	v 1220	187	0	0	0	0	0	0	0
11	83	0	e 54	270	0	0	0	0	0	0	0	0
12	90	e 10	0	v 725	0	0	0	0	0	0	0	0
13	95	e 05	0	e 94	0	0	0	0	e 07	+	0	e 20
14	97	0	0	v 180	0	e 30	0	0	0	0	0	50
15	80	0	e 15	v 125	0	e 20	0	0	0	35	0	60
16	64	0	18	e 78	0	0	0	0	0	0	0	60
17	71	0	20	0	0	0	+	0	e 33	0	0	60
18	68	0	e 10	0	0	0	0	0	0	0	0	60
19	68	0	0	0	e 10	0	0	0	0	0	0	60
20	71	0	+	0	20	0	0	0	0	0	0	50
21	83	0	v 50	0	30	0	0	0	0	14	0	50
22	73	0	e 35	0	50	0	0	0	0	0	0	50
23	68	0	e 30	0	e 10	0	0	0	0	0	0	50
24	68	0	v 825	0	0	0	0	0	0	0	0	30
25	60	0	v 38	v 175	0	0	0	0	0	0	0	50
26	62	+	v 83	e 25	0	0	42	30	0	0	31	50
27	62	0	0	v 20	0	e 20	1180	0	0	+	23	50
28	68	0	0	20	90	110	60	0	0	0	170	20
29	60	0	0	0	312	e 25	e 68	0	0	0	+	e +
30	60	0	0	0		0	34	0	+	0	+	0
31	e 54		0	0		0		0		0	e 20	
	2649		962.0		18053		12992		54		451	
		261		27562		1565		50		49		880
MEAN	8.55	0.87	31.0	88.9	62.2	5.05	43.3	0.16	0.18	0.16	1.45	2.93
ACRE-FEET	525.	52.	1910.	5470.	3580.	310.	2580.	9.9	11.0	9.7	89.0	175.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 20.3
ACRE-FEET 14720.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

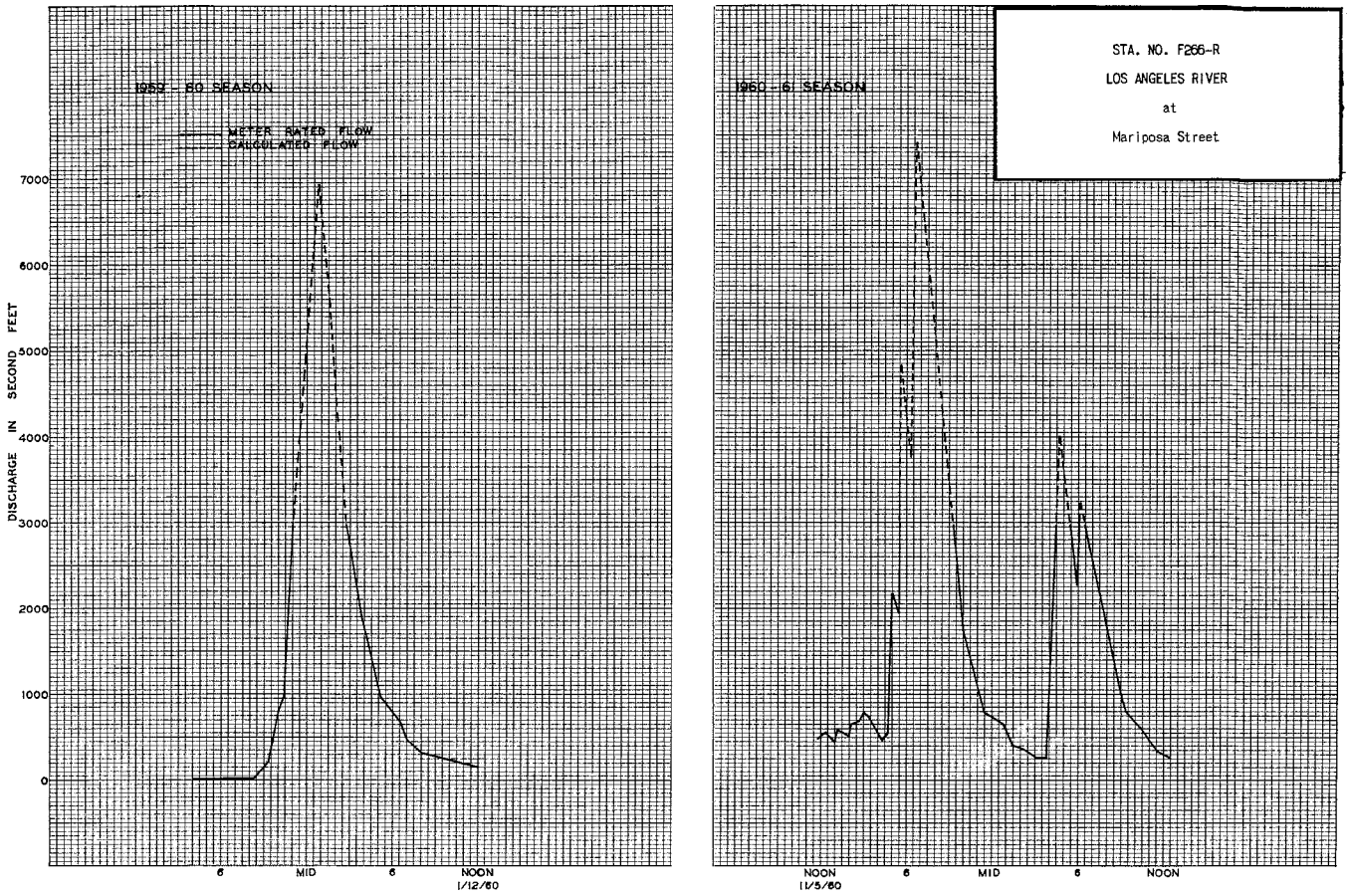
Sta. No. F266-R

Daily discharge, in second-feet of LOS ANGELES RIVER at Mariposa Street, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	e 60	e 60	e 50	50	0	0	+	e 20	0	0	e 20
2	0	e 60	52	50	+	07	0	0	e 10	0	0	0
3	0	283	e 70	50	0	+	0	0	+	0	0	0
4	0	31	65	50	0	0	e 10	0	0	0	0	e 10
5	0	1160	50	60	0	0	e 10	0	0	0	0	82
6	0	704	65	60	0	0	170	0	0	0	0	0
7	e 20	150	65	60	0	0	e 50	0	0	0	0	0
8	+	e 60	65	60	0	0	+	0	0	0	0	e 20
9	+	20	60	60	0	23	0	0	0	0	0	120
10	0	10	60	60	0	e 10	0	+	0	0	0	10
11	0	e 50	60	60	+	+	0	0	0	0	234	e 10
12	0	255	60	60	0		0	+	0	0	117	0
13	0	43	60	60	0		0	e 20	0	0	0	0
14	0	e 60	60	60	0	+	0	+	0	0	0	0
15	0	50	60	60	0	168	0	0	0	0	44	0
16	+	50	60	60	114	e100	0	0	0	0	0	0
17	+	50	60	60	50	e 50	0	0	0	0	0	0
18	0	50	60	60	+	+	0	0	0	0	0	0
19	0	50	60	50	0	0	e 10	0	0	0	0	0
20	0	50	60	50	0	08	0	0	0	0	93	0
21	0	60	60	50	0	+	e 10	0	0	0	+	0
22	0	60	65	50	0	0	92	0	0	0	+	0
23	+	60	65	e 50	0	0	e 50	0	0	0	0	e 20
24	0	60	60	140	0	+	e 20	0	0	0	0	0
25	+	e 60	60	49	0	75	e 10	0	0	0	0	0
26	0	538	55	1390	0	+	0	0	0	0	0	0
27	0	27	55	20	0	+	0	+	0	0	0	0
28	e 30	e 60	50	70	0	65	0	+	0	0	0	0
29	60	e 60	50	29		e 20	0	+	0	0	0	0
30	60	e 60	50	100		+	0	0	0	0	0	0
31	e 60		e 50	60		+		0		0	0	
	230		230		214		1260		30		2594	
		3186.0		1654.0		203.8		2.0		0		29.2
MEAN	0.74	106.	7.42	53.4	0.76	6.57	4.20	0.06	0.10	0	8.36	0.97
ACRE-FEET	46.	6320.	456.	3280.	42.	404.	250.	4.0	6.0	0	514.	58.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 15.7
ACRE-FEET 11,380.



STATION F57C-R
LOS ANGELES RIVER above Arroyo Seco

LOCATION: WATER-STAGE RECORDER, LAT. 34°04'55", LONG. 118°13'35", ON THE RIGHT (WEST) CHANNEL WALL 800 FEET ABOVE THE JUNCTION WITH THE ARROYO SECO. THE FORMER STATION F57B-R WAS 450 FEET ABOVE THE JUNCTION WITH THE ARROYO SECO. ELEVATION OF ZERO GAGE HEIGHT, 292.58 FEET.

DRAINAGE AREA: 510 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE 177 FEET WIDE AND 29 FEET DEEP WITH A TRAPEZOIDAL INVERT 20 FEET WIDE AT TOP, 16 FEET WIDE AT BOTTOM AND ONE FOOT DEEP. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 15 FEET ABOVE GAGE.

RECORDER: A FRIEZ CONTINUOUS RECORDER, FURNISHED BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: SUBJECT TO SAME REGULATION AS STATION 300-R. SEVERAL DEBRIS BASINS REGULATE FLOW ON ADDITIONAL TRIBUTARIES. THE LOS ANGELES WATER DEPARTMENT SPILLS SURPLUS FLOW INTO THE CHANNEL FROM WATER DEVELOPED IN GRIFFITH PARK AREA; ALSO SPILLED IS EXCESS TREATED SEWAGE EFFLUENT FROM LOS ANGELES SANITATION DEPARTMENT LINE ABOVE RIVERSIDE DRIVE.

DIVERSIONS: SEVERAL IRRIGATION DIVERSIONS IN THE MOUNTAIN TRIBUTARIES, OTHER FLOW IS RELEASED AT THE SEVERAL WATER SUPPLY RESERVOIRS, AND THE LOS ANGELES WATER DEPARTMENT DIVERTS FLOW FOR SPREADING.

RECORDS AVAILABLE: AT STATION F57-R - DECEMBER 1929 TO MAY 26, 1938.
AT STATION F57B-R - MAY 26, TO APRIL 5, 1939. APRIL 5, 1939 TO DECEMBER 8, 1939 BI-WEEKLY MEASUREMENTS.
AT STATION F57C-R - DECEMBER 8, 1939 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 8960 SECOND-FEET JANUARY 12.
MINIMUM PLUS FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 7890 SECOND-FEET NOVEMBER 5.
MINIMUM PLUS FLOW VARIOUS TIMES OF YEAR.
1929-61 (STATIONS F57-R, F57B-R, F57C-R)
MAXIMUM 68,000 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT TIMES EACH YEAR FROM 1929-30 TO 1933-34.

ACCURACY: FAIR.

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, WITH THE COOPERATION OF THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

76D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F57C-R

Daily discharge, in second-feet of LOS ANGELES RIVER above Arroyo Seco, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	17.9	e 0.1	0.2	0.2	845	62	e 0.2	0.4	e 0.1	e +	e +	e +
2	0.8	e 0.1	0.2	0.2	496	1.0	0.2	0.4	0.1	+	0.1	|
3	0.4	e 0.1	0.2	0.2	8.0	0.6	0.1	0.4	0.1	+	0.1	|
4	0.4	0.2	0.2	0.2	4.7	0.6	0.1	0.2	0.1	0.1	0.1	+
5	0.4	0.2	0.2	0.2	1.4	0.4	0.1	e 0.1	0.1	0.1	0.1	e 0.1
6	0.2	e 0.2	0.2	0.2	1.2	0.4	e 0.1	0.6	0.2	0.1	0.1	0.1
7	0.2	| 0.2	0.2	0.2	1.0	0.2	e 0.1	e 0.1	0.2	0.1	0.1	0.1
8	0.2	0.2	0.2	0.2	174	0.2	0.2	0.1	0.2	0.1	0.1	0.1
9	0.2	0.2	0.2	0.2	128	0.2	0.2	0.1	0.2	0.1	0.1	0.1
10	0.2	0.2	0.2	1420	28	0.2	0.2	0.1	0.2	0.1	0.1	0.1
11	0.2	0.2	0.2	307	0.8	e 0.1	e 0.1	0.1	0.2	0.1	0.1	+
12	0.2	0.2	0.2	1280	0.4	e 0.1	e 0.1	0.1	0.2	+	0.1	|
13	0.2	0.2	0.2	10.5	0.4	0.2	0.2	0.1	0.2	|	0.1	|
14	0.2	0.2	0.2	155	0.4	0.2	0.2	0.1	0.2	|	0.1	|
15	0.2	0.2	0.2	170	0.4	0.2	0.2	0.1	0.2	+	0.1	|
16	e 0.1	0.2	0.2	7.7	0.4	e 0.1	e 0.1	0.1	0.2	e 0.1	0.1	|
17	| 0.1	0.2	0.2	0.8	0.4	0.2	0.1	0.1	0.2	1.4	0.1	|
18	| 0.1	e 0.2	0.2	0.6	0.4	0.2	0.1	0.1	0.2	1.0	0.1	|
19	| 0.1	0.2	0.2	0.6	0.2	0.2	0.1	0.1	0.1	1.2	0.1	|
20	| 0.1	0.4	0.2	0.6	0.2	0.2	0.1	0.1	0.1	1.2	0.1	|
21	| 0.1	0.4	1.6	0.4	0.2	0.2	0.1	0.1	0.1	e 0.1	+	|
22	| 0.1	0.4	0.6	0.4	2.1	0.2	0.1	0.1	0.1	0.2	0.1	|
23	| 0.1	0.4	0.4	0.2	0.8	0.2	0.1	0.1	0.4	0.1	0.1	|
24	| 0.1	0.2	919	0.2	0.6	0.2	0.1	0.1	0.2	+	+	|
25	| 0.1	0.2	48	148	0.4	0.2	e 0.1	0.1	0.1	0.1	|	|
26	| 0.1	0.4	1.4	60	0.4	0.2	3.6	0.1	+	0.1	|	|
27	| 0.1	0.4	0.2	3.5	0.4	0.7	1390	0.1	|	0.1	|	|
28	| 0.1	0.2	0.2	0.8	35	114	188	0.1	|	0.1	|	|
29	| 0.1	0.2	0.2	0.6	420	3.2	2.6	0.1	|	+	|	|
30	| 0.1	0.2	0.2	0.4	|	0.6	0.4	0.1	e +	+	|	+
31	e 0.1	|	0.2	0.4	|	0.2	|	e 0.1	|	e +	e +	|
	235		976.0		21512		15879		4.2		2.1	
		69		3569.5		187.4		4.6		6.5		0.6
MEAN	0.76	0.23	31.5	115.	74.2	6.05	52.9	0.15	0.14	0.21	0.07	0.02
ACRE-FEET	47.	14.	1940.	7080.	4270.	372.	3150.	9.1	8.3	13.	4.2	1.2

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 23.3
ACRE-FEET 16,910.

76D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

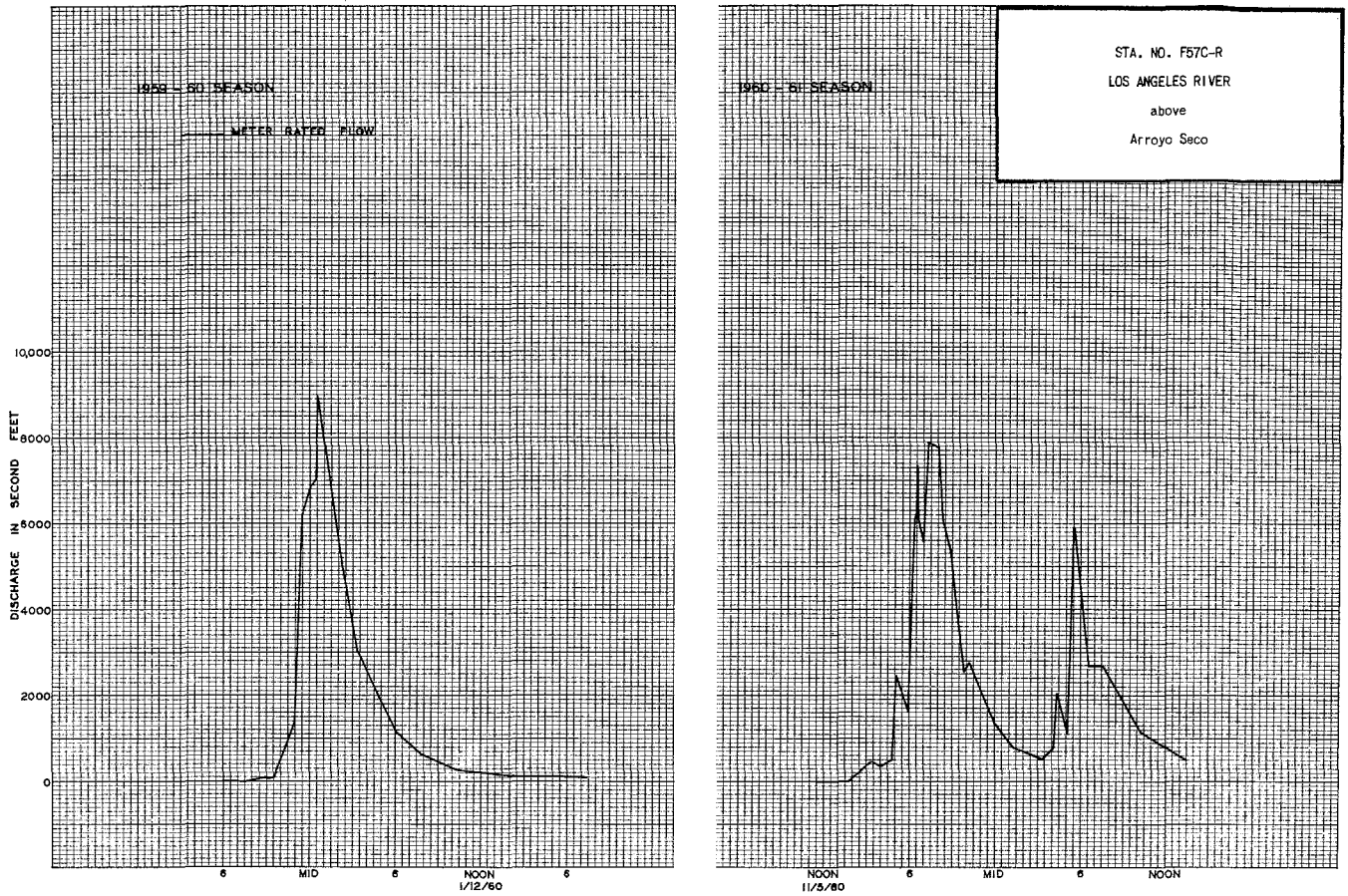
Sta. No. F57C-R

Daily discharge, in second-feet of LOS ANGELES RIVER above Arroyo Seco, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	1.4	0.6	a 0.4	0.3	0.4	0.1	0.1	+	0.1	+
2	|	+	55	0.6	a 0.4	0.3	0.2	0.1	0.2	|	0.1	|
3	|	149	2.0	0.8	0.4	0.4	0.2	0.1	0.2	|	0.1	|
4	|	24	0.4	1.6	0.4	0.4	0.2	0.1	0.1	|	0.1	|
5	|	1250	0.4	2.0	0.4	0.4	0.3	0.1	0.1	|	0.1	|
6	|	998	0.6	1.6	0.4	0.4	5.5	0.1	0.1	|	0.1	|
7	|	21	0.6	1.4	0.3	0.2	3.1	0.1	0.1	|	0.1	|
8	+	3.2	0.8	1.0	0.3	0.2	0.8	0.1	0.1	|	0.1	|
9	0.7	1.4	1.2	1.2	0.3	0.2	0.3	0.1	0.1	|	0.1	|
10	+	0.4	0.8	2.0	0.3	0.2	0.2	0.1	0.1	|	0.1	|
11	|	0.4	0.4	2.0	0.3	0.2	0.2	0.1	0.1	|	150	|
12	|	321	0.4	1.8	0.3	0.2	0.2	0.1	0.1	|	6.0	|
13	|	109	1.4	2.0	0.3	0.2	0.2	0.1	0.1	+	0.4	|
14	|	2.9	1.4	1.8	0.4	0.2	0.2	0.1	+	0.1	0.3	|
15	|	0.8	1.6	1.0	0.4	238	0.2	0.1	|	0.1	0.3	|
16	|	0.8	1.6	0.6	1.1	13.6	0.2	0.1	|	+	0.3	|
17	|	0.4	1.0	1.0	2.0	3.2	0.2	0.1	|	|	0.3	|
18	|	+	0.8	1.8	0.6	1.2	0.2	0.1	|	|	0.3	|
19	|	0.2	2.0	1.6	0.4	0.6	0.2	0.1	|	|	0.3	|
20	|	+	a 3.2	0.6	0.2	0.4	0.2	0.1	|	|	0.3	|
21	|	+	a 3.2	0.8	0.2	0.2	0.2	0.1	|	|	0.3	|
22	|	+	a 3.2	0.4	0.2	0.2	101	0.1	|	+	0.3	|
23	|	0.8	2.0	0.4	0.2	0.2	17.2	0.1	|	0.1	0.3	|
24	|	1.0	1.2	1.8	0.2	0.2	0.4	0.1	|	0.1	0.2	|
25	|	+	0.6	33	0.2	3.4	0.2	0.1	|	+	0.2	|
26	|	600	0.6	1693	0.2	0.8	0.1	0.1	|	|	0.1	|
27	|	72	0.8	a 31	0.3	0.2	0.1	0.1	+	|	0.1	|
28	|	2.6	1.0	2.0	0.3	1.2	0.1	0.1	0.1	|	0.1	|
29	|	2.3	0.6	0.6	|	1.6	0.1	0.1	0.1	|	+	|
30	|	1.8	0.6	15.3	|	0.4	0.1	0.1	+	|	+	+
31	+	|	1.2	a 0.6	|	0.4	|	0.1	|	+	+	|
	0.7		92.0		11.4		132.7		1.7		161.1	
		3563.0		1805.9		269.6		3.1		0.4		+
MEAN	0.02	119.	2.97	58.4	0.41	8.70	4.42	0.10	0.06	+	5.20	+
ACRE-FEET	1.4	7070.	193.	3580.	23.	535.	263.	6.1	3.4	0.8	320.	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 16.6
ACRE-FEET 12000.



STATION F34D-R
LOS ANGELES RIVER below Firestone Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 33°56'58", LONG. 118°10'23", ON THE RIGHT (WEST) BANK, 472 FEET DOWNSTREAM FROM THE CENTER LINE OF FIRESTONE BOULEVARD BRIDGE AND ABOUT THREE MILES WEST OF DOWNEY. ELEVATION OF ZERO GAGE HEIGHT 96.12 FEET.

DRAINAGE AREA: 614 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL, CONCRETE, 355 FEET WIDE AT BOTTOM WITH 3 TO 1 RIPRAPPED SLOPES. LOW FLOW CHANNEL IN CENTER, 28 FEET WIDE AT TOP, 20 FEET WIDE AT BOTTOM, ONE FOOT DEEP. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED AT STATION, HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF FIRESTONE BOULEVARD BRIDGE 500 FEET ABOVE STATION.

RECORDER: A STEVENS TYPE A-35 CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW IS SUBJECT TO SAME REGULATION AS STATION F57C-R; IN ADDITION, FLOW IS PARTIALLY REGULATED BY DEVIL'S GATE DAM.

DIVERSIONS: FLOW IS SUBJECT TO SAME DIVERSIONS AS STATION F57C-R. THE CITIES OF PASADENA AND SOUTH PASADENA DIVERT WATER FROM THE ARROYO SECO.

RECORDS AVAILABLE: AT STATION F34-R - MARCH 1, 1928 TO APRIL 11, 1938 (FOR PREVIOUS RECORDS SEE STATE OF CALIFORNIA DIVISION OF WATER RIGHTS BULLETIN NO. 5.)

AT STATION F34B-R - APRIL 11, 1938 TO NOVEMBER 3, 1949.
AT STATION F34C-R - NOVEMBER 4, 1949 TO DECEMBER 11, 1956.
AT STATION F34D-R - DECEMBER 11, 1956 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 10,700 SECOND-FEET JANUARY 12.
MINIMUM 4.0 SECOND-FEET (ESTIMATED) DECEMBER 13.
1960-61
MAXIMUM 7810 SECOND-FEET NOVEMBER 5.
MINIMUM 4.5 SECOND-FEET (ESTIMATED) NOVEMBER 20.
1928-61
MAXIMUM 79,000 SECOND-FEET ESTIMATED) MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES PRIOR TO 1940. FLOW CONTINUOUS IN RECENT YEARS DUE TO INDUSTRIAL WASTES.

ACCURACY: POOR, STAGE-DISCHARGE RELATIONSHIP AFFECTED BY SILTATION AND GROWTH OF PLANTS. MEASURING CONDITIONS WERE VERY POOR.

OPERATION: CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT WITH THE COOPERATION OF THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY AND THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

74D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F34D-R

Daily discharge, in second-feet of LOS ANGELES RIVER below Firestone Boulevard, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	31	15.6	10.5	6.1	992	88	b 9.6	b 10.5	b 8.0	11.0	9.5	10.5
2	11.0	11.0	10.5	5.2	857	b 20	10.0	13.0	8.0	10.5	12.6	10.0
3	6.7	10.5	10.0	7.0	b 25	28	10.0	17.0	11.0	8.5	14.4	7.0
4	5.8	11.5	8.5	8.5	21	8.0	9.0	35	11.0	9.5	11.0	8.5
5	12.0	12.0	6.7	8.0	24	10.0	15.0	12.0	8.0	11.0	12.0	6.7
6	11.5	10.5	6.4	8.5	13.0	8.0	13.0	12.8	8.0	10.5	9.0	12.0
7	11.0	7.5	9.5	8.5	b 12.0	10.0	10.0	13.4	9.6	10.0	7.0	12.8
8	10.5	7.0	b 12.0	8.5	174	15.0	9.0	8.5	b 12.0	10.5	10.5	12.0
9	13.6	10.5	16.0	8.5	277	16.0	9.0	9.0	11.5	9.5	10.0	10.0
10	7.0	11.5	11.2	1770	74	b 12.0	8.5	15.0	12.0	9.0	10.5	8.5
11	7.5	9.5	8.0	264	b 18.0	7.5	9.0	12.0	11.5	10.0	11.0	7.5
12	10.0	15.2	6.0	1910	14.0	6.7	b 7.5	9.6	11.0	11.0	14.4	14.4
13	11.0	11.0	4.0	29	9.0	7.0	9.0	11.2	11.5	10.5	10.0	11.5
14	11.5	6.4	6.5	341	7.0	9.0	10.0	13.4	11.5	10.5	8.5	12.0
15	16.8	6.7	7.0	365	8.0	10.0	10.5	10.0	11.0	10.0	12.0	12.8
16	14.4	10.0	7.0	b 10.0	11.0	10.0	9.5	12.0	10.0	9.0	12.8	12.8
17	7.0	10.0	8.0	5.0	11.0	11.0	9.5	11.0	10.0	9.0	12.0	8.5
18	8.0	10.0	8.0	13.0	11.0	10.5	9.0	11.0	9.0	10.0	12.0	9.5
19	12.0	10.0	7.0	13.0	11.0	9.0	9.0	10.0	8.5	10.0	12.0	14.4
20	13.6	9.0	7.0	13.0	7.5	9.0	9.0	12.0	10.0	10.0	9.0	14.4
21	12.8	5.8	9.0	13.0	7.0	9.5	8.0	9.0	10.5	10.0	9.5	12.0
22	12.8	6.7	13.6	17.0	7.5	11.0	9.0	11.0	11.0	9.5	11.5	10.5
23	11.5	11.0	b 7.5	16.0	11.0	9.5	8.5	7.0	11.0	7.5	11.5	10.5
24	7.0	12.0	1500	b 13.6	8.0	8.5	8.5	9.5	10.5	6.7	11.5	7.0
25	6.4	12.0	137	120	8.0	b 12.0	8.0	11.8	9.5	9.0	12.0	6.7
26	11.0	7.5	10.0	137	7.0	b 9.0	184	12.0	9.0	9.5	11.5	12.0
27	10.5	9.5	6.7	b 18.0	b 9.0	b 9.0	2090	9.6	10.5	9.5	10.0	12.8
28	10.0	6.7	7.0	12.8	50	140	179	9.6	11.0	9.5	8.0	11.0
29	10.5	7.5	8.5	15.0	717	b 25	b 24	8.0	11.5	9.5	12.0	10.0
30	9.5	10.5	9.0	16.0		b 10.0	b 15.0	8.0	11.0	8.0	11.0	10.0
31	7.0		8.5	b 14.0		b 8.0		b 8.0		7.5	10.5	
	340.9	1967.6		3401.0		2563.5		308.6		339.2		
		294.6		5194.2		556.2		361.9		296.2		318.3
MEAN	11.0	9.82	63.5	168.	121.5	17.9	85.4	11.7	10.3	9.55	10.9	10.6
ACRE-FEET	676.	584.	3900.	10300.	6750.	1100.	5080.	718.	612.	588.	673.	631.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 43.6
ACRE-FEET 31610.

74D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

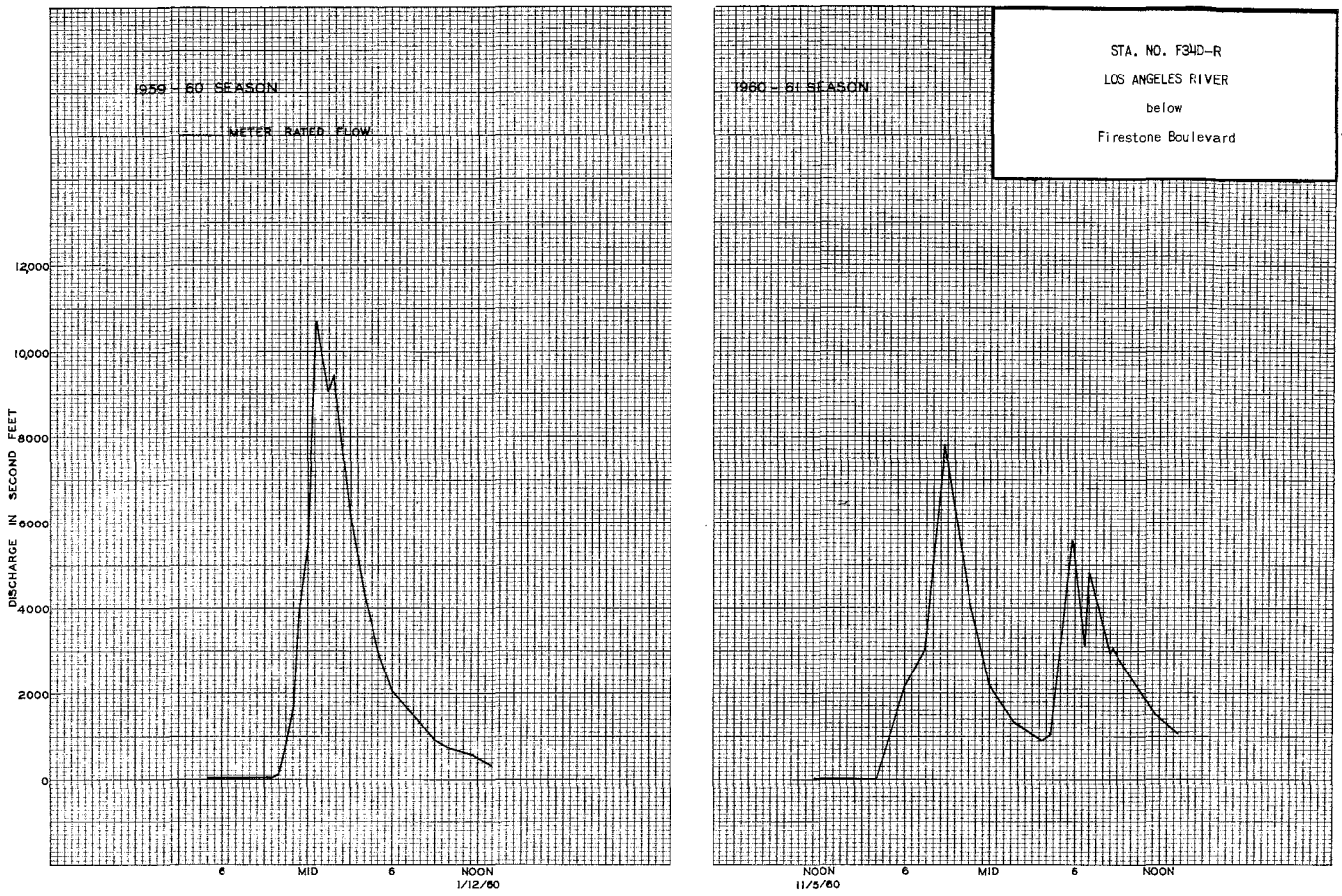
Sta. No. F34D-R

Daily discharge, in second-feet of LOS ANGELES RIVER below Firestone Boulevard, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.1	11.5	b 12.0	8.0	11.5	9.5	15.2	8.0	b 14.4	9.5	11.5	12.8
2	5.5	11.5	63	8.5	11.0	11.0	12.8	8.5	12.0	10.0	12.0	8.5
3	9.0	243	b 14.0	10.5	10.0	9.0	12.8	9.0	11.0	10.5	11.5	9.5
4	10.0	103	7.0	11.5	9.5	7.5	13.6	b 8.3	11.0	8.5	11.5	6.4
5	11.5	1200	7.0	12.8	9.0	7.0	16.0	8.0	10.4	10.0	10.0	11.5
6	11.5	1610	b 8.0	12.8	9.0	9.0	18.4	7.0	12.8	10.0	9.0	11.5
7	12.0	b105	9.0	11.5	9.5	10.0	18.4	6.1	12.8	10.0	10.0	11.5
8	8.5	10.0	8.5	11.0	9.5	9.0	13.6	6.1	b 12.0	8.0	11.0	12.0
9	18.1	10.0	8.5	12.0	8.5	9.5	10.5	b 8.0	11.0	6.7	11.0	9.0
10	27	10.0	7.0	14.4	8.5	10.5	10.0	8.0	9.0	9.5	e 8.8	7.5
11	8.5	b 11.0	6.7	13.6	8.5	9.5	10.0	8.0	8.0	9.0	227	12.0
12	9.0	440	8.0	14.4	7.5	9.0	9.5	8.0	9.0	9.0	36	10.0
13	10.0	213	9.0	14.4	8.5	11.0	9.5	6.4	10.0	9.0	16.0	9.5
14	9.5	b 15.0	9.0	12.8	8.5	11.5	9.5	6.1	10.0	9.5	14.4	9.0
15	5.8	10.0	9.0	11.0	8.5	355	7.5	9.0	9.5	8.0	13.6	8.0
16	5.8	7.5	10.5	12.8	21	55	6.7	10.5	10.0	8.5	11.5	5.5
17	9.0	8.0	7.5	13.6	16.0	28	9.0	10.5	9.5	13.1	9.5	5.8
18	9.5	7.5	7.0	13.6	14.4	22	9.5	11.0	10.0	12.0	14.4	b 6.0
19	9.5	11.0	10.5	13.6	12.0	17.6	b 9.5	10.0	10.5	12.0	6.4	8.8
20	10.5	5.2	12.0	12.8	11.5	13.6	24	8.5	12.0	12.8	6.4	10.4
21	10.5	4.5	12.0	11.5	10.0	11.0	9.5	6.7	12.0	12.0	9.5	10.4
22	6.7	8.0	12.8	11.0	9.0	10.5	89	9.0	12.0	12.0	10.0	8.8
23	5.8	12.0	12.0	12.0	9.0	10.5	24	10.0	12.0	10.5	12.8	7.5
24	9.5	18.0	10.5	13.6	9.0	11.0	8.5	10.0	10.5	11.5	10.5	5.0
25	9.5	b 25	8.5	8.6	9.0	26	8.5	b14.4	9.0	11.5	10.5	7.0
26	8.5	808	7.5	2230	8.5	16.0	8.5	6.5	10.5	12.0	8.0	9.0
27	8.5	b140	8.5	199	9.5	12.0	8.5	6.5	11.5	11.5	7.5	9.0
28	10.5	10.0	8.5	46	9.5	30	8.5	6.1	11.5	12.0	11.5	11.0
29	9.0	10.0	8.0	16.8		14.4	8.0	7.0	12.0	9.5	12.8	10.0
30	8.5	b 12.0	8.0	18.4		14.4	7.0	6.1	11.5	9.0	12.0	b 6.0
31	14.4		7.5	12.8		15.2		b 6.0		11.5	12.0	
	307.7	5089.7	337.0	2902.7	285.9	795.2	426.5	253.3	327.4	318.6	578.6	268.9
MEAN	9.92	169.7	10.9	93.6	10.2	25.6	14.2	8.17	10.9	10.3	18.7	8.96
ACRE-FEET	610.	10100.	668.	5760.	567.	1580.	846.	502.	649.	632.	1150.	533.

Remarks:

YEAR OR PERIOD MEAN 32.6
ACRE-FEET 23,600.



STATION F319-R
LOS ANGELES RIVER below Belhart Street

LOCATION: WATER-STAGE RECORDER, LAT. 33°49'06", LONG. 118°12'06", ON THE RIGHT (WEST) BANK BELOW BELHART STREET BRIDGE. ELEVATION OF ZERO GAGE HEIGHT 11.91 FEET. FORMER STATION F180-R WAS LOCATED ON THE PACIFIC COAST HIGHWAY BRIDGE APPROXIMATELY 1.94 MILES DOWNSTREAM.

DRAINAGE AREA: 810 SQUARE MILES (EXCLUDES AREA ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: TRAPEZOIDAL CONCRETE, 352.25 FEET WIDE AT BOTTOM WITH 2.25 TO 1 FOOT SLOPED LEVEES; 0.5 FOOT INVERTED BOTTOM TO LOW FLOW CHANNEL 28 FEET WIDE AND 1.0 FOOT DEEP IN CENTER OF CHANNEL. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM CABLE CAR AT THE STATION.

RECORDER: A STEVENS A-35B CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION AND/OR DIVERSIONS: FLOW IS SUBJECT TO THE SAME REGULATION AS STATION F34D-R AND STATION F45B-R.

RECORDS AVAILABLE: JANUARY 13, 1956 TO SEPTEMBER 30, 1961 AT STATION F319-R. FOR EARLIER RECORDS, OCTOBER 31, 1931 TO JANUARY 13, 1956, SEE STATION F180-R. PRIOR TO 1931, SEE STATION F36-R, LOS ANGELES RIVER AT WILLOW STREET.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 21,700 SECOND-FEET, JANUARY 12.
MINIMUM 2.4 SECOND-FEET, DECEMBER 28.
1960-61
MAXIMUM 9450 SECOND-FEET JANUARY 26.
MINIMUM 1.3 SECOND-FEET SEPTEMBER 30.
1931-61 (STATION F180-R)
MAXIMUM 99,000 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT TIMES IN 1930-31 AND 1933-34.

ACCURACY: GOOD FOR HIGH FLOWS, FAIR FOR LOW FLOWS DUE TO DEPOSITION OF DEBRIS.

OPERATION: CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH, AND CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

74DT4M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F319-R

Daily discharge, in second-feet of LOS ANGELES RIVER below Belhart Street, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	28	17.8	12.5	6.0	1450	221	14.6	12.5	12.5	b 16.0	11.5	14.6
2	25	12.5	13.8	4.4	1460	25	15.4	15.4	13.0	16.0	17.0	13.8
3	b 7.9	13.8	13.0	6.4	81	33	12.0	22	16.2	10.9	17.8	11.5
4	6.3	13.0	13.8	9.0	26	13.0	11.0	41	16.2	11.6	17.0	10.0
5	18.2	12.5	11.0	13.0	29	12.5	20	17.0	9.0	16.8	17.0	9.0
6	17.5	11.0	8.5	15.4	15.4	105	17.8	17.8	10.5	16.0	13.8	5.7
7	16.8	10.5	10.0	17.0	13.8	14.6	15.4	15.4	14.6	15.3	10.5	4.9
8	16.0	8.5	17.0	17.0	216	20	13.8	10.5	17.0	16.0	13.8	9.0
9	19.0	10.5	21	17.0	491	21	13.8	11.0	15.4	11.6	14.6	13.0
10	7.9	14.6	16.2	2400	246	17.0	10.5	20	b 17.5	11.6	15.4	11.5
11	8.4	15.4	13.0	384	b 27	17.0	11.0	17.0	13.0	15.3	14.6	7.2
12	15.3	17.0	10.5	3420	19.0	12.5	12.5	14.6	13.0	16.8	16.2	9.1
13	16.8	18.6	6.0	b 44	14.0	9.5	13.8	16.2	16.8	16.0	14.6	13.5
14	17.5	11.5	5.2	551	9.0	11.5	13.0	15.4	16.0	16.0	10.0	13.8
15	23	9.0	8.5	516	10.0	17.8	13.8	12.0	16.0	15.3	12.0	27
16	19.7	10.5	11.0	b 10.0	16.0	20	11.5	10.5	15.6	10.9	15.4	19.2
17	7.9	15.4	13.0	6.0	16.0	20	9.0	13.8	15.6	13.0	17.0	14.6
18	9.4	13.0	13.0	18.0	b 16.0	18.6	11.0	14.6	10.1	16.0	16.2	10.5
19	18.2	17.0	12.0	18.0	16.2	14.6	14.6	12.5	9.4	15.3	17.0	10.0
20	21	16.2	9.5	18.0	9.5	12.0	16.2	13.8	14.6	b 15.3	13.0	13.6
21	19.0	12.0	11.9	b 18.0	9.0	14.6	15.4	11.0	15.3	17.0	10.0	15.4
22	18.2	10.5	18.6	22	9.5	23	13.0	8.0	16.0	16.2	12.5	22
23	17.5	10.5	12.5	21	16.2	17.8	13.8	6.4	13.1	13.8	16.2	29
24	8.4	14.6	1960	18.6	13.0	17.8	8.0	10.0	15.3	11.0	17.0	21
25	7.4	15.4	378	159	13.0	17.0	9.5	12.0	10.9	13.8	18.6	12.0
26	16.8	13.0	15.4	358	12.0	13.8	15.4	12.5	10.1	16.2	17.0	13.8
27	16.0	9.0	6.0	23	11.5	11.0	3380	12.0	15.3	16.2	15.4	21
28	15.3	10.5	3.7	17.8	94	337	434	12.5	16.0	14.6	11.0	21
29	b 16.0	10.0	10.0	20	1120	30	28	7.2	16.8	13.8	13.8	17.8
30	15.4	10.0	9.0	18.6		14.6	16.2	7.2	b 14.2	13.0	17.0	17.8
31	14.6		9.0	16.2		13.0		8.5		9.5	14.6	
	484.4	383.8	2779.7	8182.4	5479.1	1050.7	4204.0	4303	425.0	446.8	4575	4323
MEAN	15.6	12.8	89.7	264.	189.	33.9	140.	13.9	14.2	14.4	14.8	14.4
ACRE-FEET	961.	761.	5510.	16230.	10870.	2080.	8340.	853.	843.	886.	907.	857.

Remarks:

YEAR OR PERIOD MEAN 67.6
ACRE-FEET 49,100.

74DT4M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

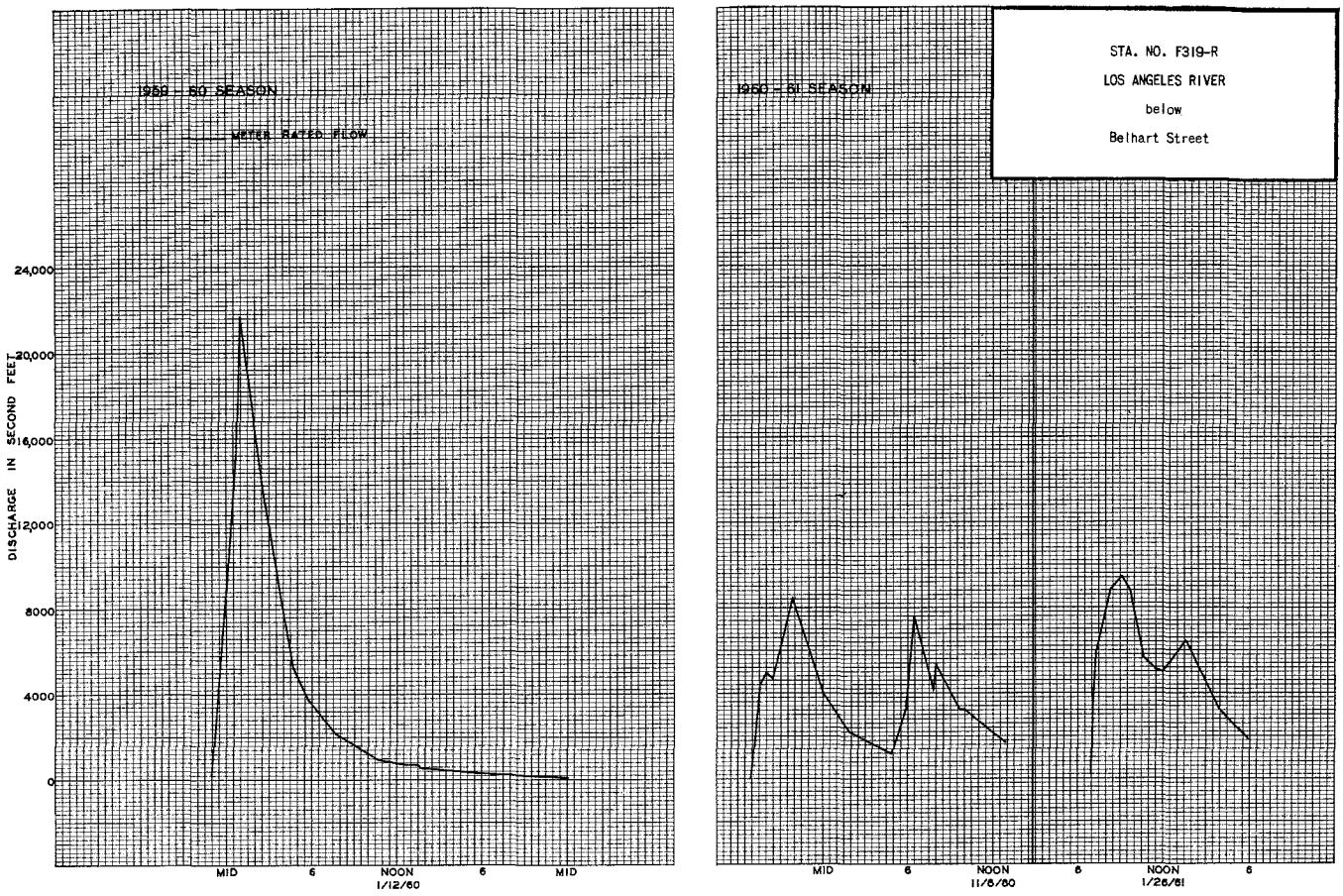
Sta. No. F319-R

Daily discharge, in second-feet of LOS ANGELES RIVER below Belhart, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b 8.0	17.8	17.0	8.5	17.0	15.4	12.5	b 13.0	19.4	16.2	17.0	b 18.6
2	7.5	15.4	130	7.6	13.8	16.2	10.0	13.5	17.0	13.8	17.8	11.0
3	12.0	225	19.4	8.0	13.8	17.8	11.0	13.8	13.0	15.4	18.6	12.0
4	15.0	249	7.2	13.0	10.5	15.4	14.6	b 13.0	13.0	13.0	18.6	12.0
5	17.0	1210	7.2	13.8	7.2	12.0	17.0	13.0	15.4	12.5	15.4	b 17.0
6	17.0	2110	10.0	13.8	10.0	10.0	19.4	12.0	17.8	16.2	11.5	14.6
7	18.0	180	10.0	13.8	15.4	13.0	25	7.6	17.8	16.2	12.0	15.4
8	9.4	b 15.0	a 15.0	9.5	15.4	14.6	14.6	8.5	17.0	13.8	18.6	17.0
9	b 20	b 15.0	14.0	9.5	16.2	16.2	11.0	13.0	16.2	d 12.5	23	13.0
10	50	b 15.0	10.0	13.8	15.4	17.0	12.0	15.4	11.0	14.5	16.2	9.0
11	b 14.0	15.4	9.0	15.4	12.5	13.8	19.4	16.2	9.5	14.0	18.8	b 17.0
12	14.0	553	11.0	15.4	9.0	9.5	18.6	15.4	11.0	14.0	64	18.6
13	14.0	388	14.0	17.0	9.5	12.0	18.6	11.0	14.6	d 14.0	b 21	19.4
14	15.0	30	14.0	14.6	15.4	19.4	19.4	10.0	17.0	18.6	19.4	18.6
15	8.0	15.4	14.0	10.0	17.8	557	14.6	11.5	21	15.4	18.6	17.8
16	8.0	12.5	a 16.0	12.0	31	86.0	13.0	16.2	18.6	11.5	16.5	12.0
17	11.4	13.0	17.0	16.2	21	25	18.6	17.0	17.0	18.0	15.0	13.8
18	14.5	12.5	9.0	17.0	17.0	19.4	17.8	18.6	13.8	19.5	b 16.0	11.0
19	14.6	13.0	13.8	17.0	11.0	12.0	17.0	15.4	13.0	17.0	38	13.8
20	b 16.8	7.2	21	16.2	12.5	11.5	29.8	13.8	15.4	19.4	b 11.4	15.4
21	10.5	9.5	20	12.5	17.0	18.6	17.8	8.5	17.0	18.6	12.0	15.4
22	9.5	13.0	19.4	9.5	15.4	17.8	194	9.5	17.8	18.6	15.0	13.8
23	6.8	17.0	17.8	11.0	14.6	18.6	79	12.5	18.6	13.8	b 17.8	9.5
24	9.0	20	13.0	17.0	15.4	17.8	b 13.5	12.5	15.4	13.0	17.0	6.4
25	12.5	48	9.0	98	14.6	40	14.0	19.4	12.0	16.2	18.6	9.0
26	13.0	1110	7.2	2860	11.0	13.0	13.5	11.5	13.8	17.8	b 10.5	6.0
27	14.6	359	10.0	238	10.0	10.5	13.5	7.6	17.8	17.0	10.0	2.6
28	15.4	28	12.5	48	13.0	90	13.8	6.8	18.6	17.0	17.0	2.8
29	13.0	21	12.0	55		20	10.0	9.0	17.8	12.5	18.6	2.2
30	11.0	21	12.0	37		16.2	b 9.0	9.0	17.8	11.0	17.8	1.3
31	13.8		11.0	28		16.2		11.0		13.0	b 17.8	
	425.3	6758.7	522.5	3676.1	402.4	1191.9	711.2	385.2	475.1	474.0	748.7	366.0
MEAN	13.7	225.	16.8	119.	14.4	38.4	23.7	12.4	15.8	15.3	24.2	12.2
ACRE-FEET	844.	13410.	1040	7290.	798.	2360.	1410.	764.	942.	940.	1480.	726.

Remarks:

YEAR OR PERIOD MEAN 44.2
ACRE-FEET 32,000.



STATION F279C-R
LOS CERRITOS CHANNEL at Stearns Street

LOCATION: WATER-STAGE RECORDER, LAT. 33°47'43", LONG. 118°06'10", ON THE RIGHT (WEST) BANK, SEVEN FEET ABOVE STEARNS STREET BRIDGE, ELEVATION OF ZERO GAGE HEIGHT 4.37 FEET.

DRAINAGE AREA: 36.2 SQUARE MILES.

CHANNEL AND CONTROL: TRAPEZOIDAL CONCRETE, 122 FEET WIDE AT TOP OF LEVEES, 88 FEET WIDE AT CHANNEL BOTTOM, 10 FEET DEEP.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM STEARNS STREET BRIDGE.

RECORDER: A STEVENS TYPE A-35 CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATIONS AND/OR DIVERSIONS: NONE.

RECORDS AVAILABLE: LOS CERRITOS CHANNEL AT SEVENTH STREET, RECORDER RECORDS NOVEMBER 23, 1942 TO JUNE 1, 1949, AT ATHERTON STREET; JUNE 1, 1949 TO MAY 26, 1955; AT STEARNS STREET OCTOBER 26, 1955 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 3120 SECOND-FEET FEBRUARY 1.
MINIMUM PLUS FLOW DECEMBER 7.
1960-61
MAXIMUM 1020 SECOND-FEET JANUARY 26.
MINIMUM NO FLOW AT VARIOUS DAYS.
1949-61
MAXIMUM 3120 SECOND-FEET FEBRUARY 1, 1960.
MINIMUM DRY PART OF MOST YEARS.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F279C-R

Daily discharge, in second-feet of LOS CERRITOS CHANNEL at Stearns Street, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	1.0	0.3	0.1	351	4.1	0.8	0.5	0.5	0.5	0.5	0.6
2	0.4	1.0	0.1	0.1	95	7.0	1.0	0.6	0.6	0.6	0.5	0.6
3	0.5	0.5	0.1	0.1	5.6	7.0	0.6	0.6	0.4	0.6	0.5	0.5
4	1.0	1.0	0.4	0.2	5.1	1.0	1.0	8.9	0.5	0.5	0.5	0.5
5	0.4	1.2	0.3	0.2	5.1	0.4	0.8	0.4	0.5	0.5	0.5	0.5
6	0.4	2.1	0.2	0.4	4.1	0.4	0.8	b 0.4	0.4	0.6	0.5	0.5
7	0.3	1.2	+	0.2	1.0	0.5	1.0	0.4	0.4	0.4	0.5	0.8
8	0.4	0.5	7.5	0.2	29	0.6	0.8	0.4	0.5	1.1	0.4	0.4
9	0.8	0.5	1.9	0.4	19	0.5	0.5	0.4	0.5	0.6	0.5	0.4
10	0.5	0.4	0.5	66	51	0.3	0.7	0.4	0.4	0.6	0.5	0.6
11	0.1	0.4	0.4	44	2.5	0.2	0.4	0.4	0.4	0.4	0.5	1.0
12	0.4	0.2	0.4	132	1.9	0.2	0.5	0.4	0.4	0.5	0.5	0.5
13	0.4	0.4	0.3	0.5	2.1	0.3	0.6	0.4	1.0	0.5	0.5	0.5
14	0.5	0.8	0.4	118	0.5	0.5	0.8	0.4	1.0	0.5	0.5	0.5
15	0.6	0.4	0.5	28	1.2	0.3	0.6	0.4	2.1	0.8	0.5	0.6
16	0.3	0.2	0.5	2.1	2.5	0.1	0.5	0.3	2.1	1.0	0.5	0.6
17	0.3	0.3	0.4	0.5	2.5	0.2	0.4	0.3	2.3	0.8	0.5	0.5
18	0.2	1.2	0.5	0.1	3.2	+	0.2	0.3	2.3	0.6	0.5	0.4
19	0.4	2.5	0.6	0.8	3.7	0.2	0.4	0.3	1.2	0.5	0.5	0.4
20	0.5	1.4	1.0	0.5	1.2	0.4	0.4	0.3	1.2	0.5	0.6	0.4
21	0.3	1.9	34	0.2	1.2	0.2	0.4	0.3	4.6	0.6	0.5	0.4
22	0.6	a 1.6	0.6	0.1	1.6	0.2	0.5	b 0.3	6.1	0.6	0.5	0.5
23	0.5	1.3	1.0	0.5	2.7	0.3	0.4	1.5	1.4	0.4	0.6	0.3
24	0.8	1.0	138	0.4	2.5	0.4	0.2	b 1.4	0.5	0.4	0.5	0.4
25	0.4	a 0.7	78	6.8	2.7	0.3	0.1	0.3	0.5	0.3	0.5	0.4
26	0.4	0.4	0.6	9.8	2.5	0.3	1.2	0.1	0.4	0.3	0.5	0.4
27	0.4	0.2	0.1	2.1	2.5	0.5	239	0.1	0.4	0.4	0.5	0.5
28	0.5	0.3	1.2	1.2	24	18.4	6.1	0.1	0.5	0.4	0.5	0.3
29	0.6	0.5	3.5	1.6	129	3.2	2.3	0.1	0.5	0.5	0.5	0.3
30	0.5	0.4	1.4	0.5		2.3	1.4	0.1	0.5	0.5	0.5	0.4
31	0.4		0.4	1.9		0.6		b 0.1		0.5	0.6	
	14.3	25.5	275.1	419.5	755.9	50.9	264.4	20.9	34.1	17.0	15.7	14.7
MEAN	0.46	0.85	8.87	13.5	26.1	1.64	8.81	0.67	1.14	0.55	0.51	0.49
ACRE-FEET	28	51	546	832	1500	101	524	41	68	34	31	29

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 5.21
ACRE-FEET 3780.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

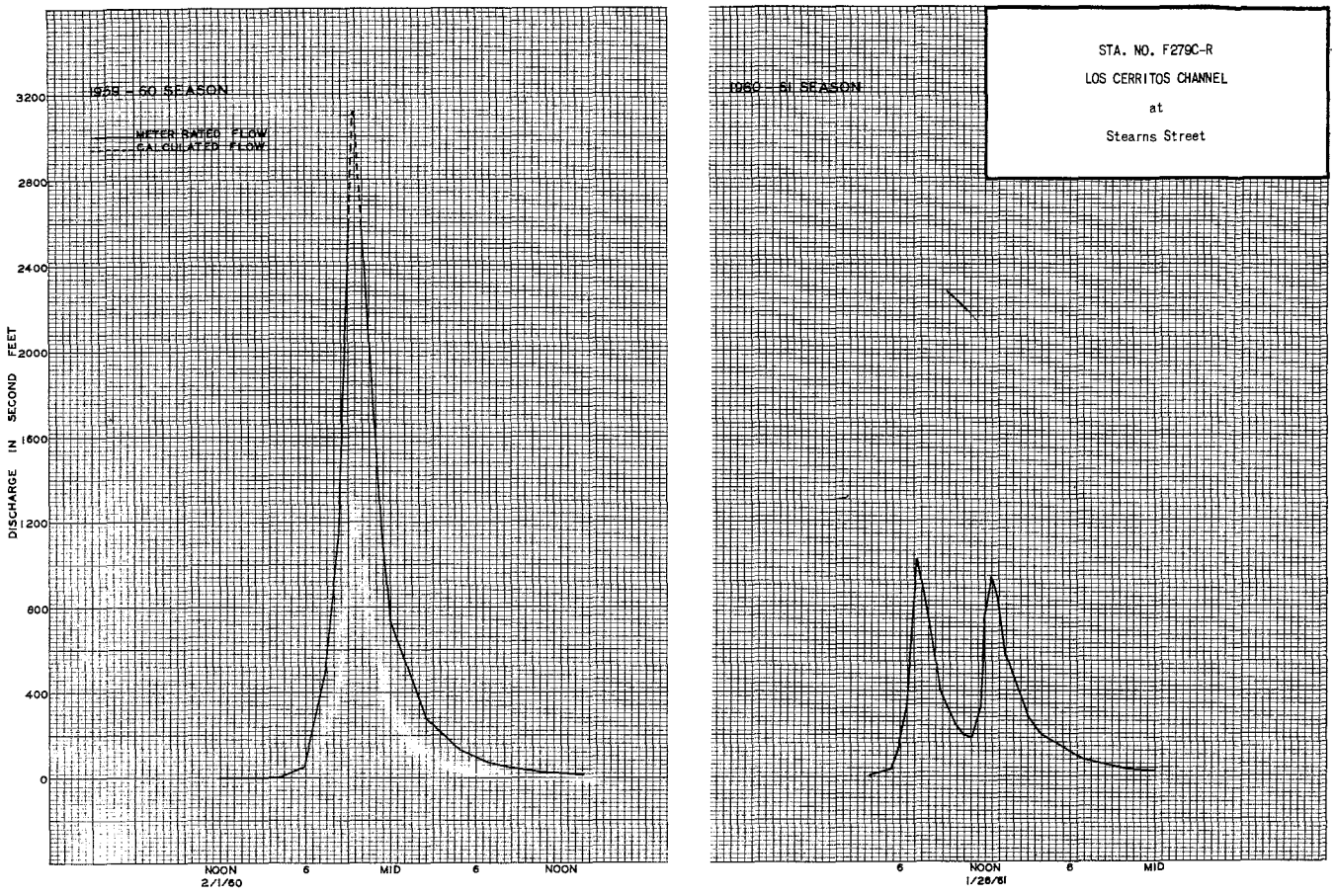
Sta. No. F279C-R

Daily discharge, in second-feet of LOS CERRITOS CHANNEL at Stearns Avenue, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.4	0.5	0.2	8.2	1.0	0.3	0.2	1.4	0.3	0.8	0.1
2	0.5	0.6	3.2	0.1	8.2	0.4	0.2	0.2	0.3	0.3	0.2	3.6
3	0.4	18.3	0.4	0	7.5	0.3	0.1	0.2	0.1	0.3	3.4	2.3
4	0.2	2.7	0.2	0.4	7.5	0.5	0.2	0.1	0.2	0.2	5.3	0.2
5	0.3	3.0	0.2	0.4	7.0	0.5	0.5	0.1	0.4	0.2	3.7	0.2
6	0.4	7.5	0.1	0.4	7.5	0.3	0.5	0.1	0.3	0.2	1.0	+
7	0.5	1.0	0.4	0.5	7.0	3.4	0.5	0.1	1.7	0.4	0.5	0.1
8	0.5	0.5	0.5	0.3	6.5	3.7	0.3	0.1	2.0	0.4	0.5	0.2
9	0.3	0.4	0.3	0.3	6.5	0.6	0.4	0.2	2.1	0.5	0.6	+
10	0.6	0.3	0.4	0.4	6.5	0.4	0.4	0.2	1.7	0.4	0.5	0.1
11	9.8	0.4	0.4	0.5	6.5	0.4	0.4	0.2	0.2	1.0	1.0	2.1
12	10.5	12.8	0.4	5.6	7.0	0.3	0.4	0.1	2.6	0.4	1.0	0.3
13	9.8	14.4	0.4	6.5	7.0	0.1	0.4	0.1	4.3	0.2	0.6	0.2
14	9.8	0.6	0.4	7.0	7.0	0.1	0.4	0.2	1.0	0.4	0.5	0.2
15	9.8	0.4	0.4	6.5	0.4	15.1	0.3	0.3	2.9	0.4	0.5	0.2
16	9.8	0.3	0.8	7.0	0.2	1.0	0.3	0.2	2.4	0.4	0.5	0.3
17	10.5	0.2	0.4	5.1	0.3	0.4	0.3	0.2	0.4	0.4	0.5	0.4
18	12.0	0.4	0.3	3.7	0.4	0.1	0.3	0.2	0.4	0.4	0.6	0.2
19	2.1	0.4	0.4	5.1	0.2	0.1	0.1	0.1	0.3	0.5	0.3	0.1
20	0.4	0.4	0.8	4.1	0.2	0.1	0.1	0.1	0.4	0.4	0.2	0.2
21	0.5	0.4	0.6	4.1	0.2	0.2	0.1	0.3	0.3	0.4	0.2	0.2
22	0.6	0.4	0.4	4.6	0.2	0.2	0.4	0.2	0.3	0.4	0.4	0.2
23	0.5	0.4	0.4	5.6	0.2	0.1	0.1	0.1	0.2	0.5	0.3	0.4
24	0.3	0.4	0.4	7.0	0.2	0.1	0.1	0.2	0.3	0.5	0.2	0.5
25	0.2	0.3	0.3	12.0	0.4	2.0	0.2	0.2	0.2	0.8	0.3	1.2
26	0.2	104	0.2	229	0.4	0.3	0.1	0.2	0.3	1.7	a 1.0	5.6
27	0.3	9.5	0.4	11.2	0.3	0.4	0.2	0.2	0.2	1.6	0.5	0.2
28	0.5	0.5	0.4	7.5	0.3	2.8	0.2	0.3	0.2	2.0	0.4	0.5
29	0.4	0.5	0.4	7.5		0.1	0.3	0.2	0.2	2.2	0.3	2.7
30	0.5	0.5	0.5	7.5		0.1	0.4	0.2	0.3	0.3	0.2	1.6
31	0.4		0.4	7.5		0.2		0.3		0.2	a 0.2	
	93.0	208.9	15.3	357.6	103.8	35.3	8.5	5.6	27.6	18.3	26.2	24.1
MEAN	3.00	6.96	0.49	11.5	3.71	1.14	0.28	0.18	0.92	0.59	0.84	1.00
ACRE-FEET	184.	4.14	30.	709	206.	70.	17.	10.	55.	36.	52.	48.

Remarks:

YEAR OR PERIOD MEAN 2.53
ACRE-FEET 1830.



STATION F130-R
MALIBU CREEK at Crater Camp

LOCATION: WATER-STAGE RECORDER, LAT. 34°04'38", LONG. 118°42'03", AT UPPER END OF MALIBU GORGE, ABOUT 0.2 MILE DOWNSTREAM FROM CRATER CAMP IN THE SANTA MONICA MOUNTAINS, AND 6 MILES SOUTHWEST OF CALABASAS. ELEVATION OF ZERO GAGE HEIGHT, 432.82 FEET.

DRAINAGE AREA: 103 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - COARSE SAND AND GRAVEL LINED WITH BRUSH AND TREES. ARTIFICIAL CONTROL BELOW STATION INSTALLED JULY 1954.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM CABLE CAR 5 FEET BELOW GAGE.

RECORDER: A STEVENS A-35B RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATIONS AND/OR DIVERSIONS: LAKE SHERWOOD DAM, LAKE ELEANOR DAM, MALIBU LAKE MOUNTAIN CLUB DAM, AND CRAG'S DAM. OTHER LOW DAMS BUILT FOR RECREATIONAL PURPOSES AFFECT THE LOW SUMMER FLOWS.

RECORDS AVAILABLE: JANUARY 17, 1931 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 84 SECOND-FEET APRIL 27.
MINIMUM 0.03 SECOND-FOOT VARIOUS TIMES IN JULY AND AUGUST.
1960-61
MAXIMUM 8.0 SECOND-FEET JANUARY 26.
MINIMUM PLUS FLOW VARIOUS TIMES OF YEAR.
1931-61
MAXIMUM 13,560 SECOND-FEET MARCH 15, 1952.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

76D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F130-R

Daily discharge, in second-feet of MALIBU CREEK at Crater Camp, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.1	1.0	0.5	0.5	5.3	1.5	0.6	0.8	0.3	0.2	0.03	0.06
2	0.6	0.8	0.5	0.5	6.1	1.4	0.6	0.8	0.3	0.3	0.03	0.06
3	0.4	0.8	0.5	0.5	2.0	1.4	0.6	0.8	0.3	0.2	0.06	0.06
4	0.4	0.8	0.5	0.5	1.7	1.4	0.6	0.6	0.3	0.06	0.06	0.06
5	0.4	0.8	0.5	0.5	1.5	1.4	0.6	0.6	0.3	0.2	0.06	0.06
6	0.4	0.8	0.4	0.5	1.4	1.2	0.6	0.6	0.3	0.2	0.06	0.06
7	0.4	0.8	0.4	0.5	1.2	1.0	0.6	0.6	0.3	0.2	0.06	0.06
8	9.4	0.8	0.4	0.5	1.4	1.2	0.6	0.6	0.3	0.2	0.06	0.06
9	1.5	0.8	0.4	0.5	1.5	1.0	0.6	0.6	0.3	0.06	0.06	0.06
10	0.8	0.8	0.4	7.6	1.4	1.0	0.6	0.6	0.3	0.06	0.06	0.06
11	0.6	0.8	0.4	4.1	1.4	1.0	0.6	0.5	0.3	0.06	0.06	0.06
12	0.6	0.8	0.4	11	1.0	1.0	0.6	0.5	0.3	0.06	0.06	0.06
13	0.5	0.8	0.4	1.5	1.0	1.0	0.5	0.5	0.3	0.06	0.06	0.06
14	0.4	0.6	0.4	3.4	1.0	0.8	0.5	0.5	0.3	0.06	0.06	0.06
15	0.5	0.6	0.4	2.0	1.0	0.8	0.5	0.5	0.3	0.06	0.06	0.06
16	0.5	0.6	0.4	1.0	1.0	0.8	0.5	0.5	0.3	0.06	0.06	0.06
17	0.6	0.6	0.4	1.0	1.0	0.8	0.5	0.5	0.3	0.06	0.06	0.06
18	0.6	0.6	0.3	1.0	1.0	0.8	0.5	0.5	0.3	0.06	0.06	0.06
19	0.6	0.6	0.3	0.8	1.0	0.8	0.5	0.5	0.3	0.2	0.06	0.06
20	0.6	0.6	0.3	0.8	1.0	0.8	0.6	0.5	0.3	0.06	0.06	0.06
21	0.8	0.6	0.4	0.8	1.0	0.8	0.6	0.5	0.2	0.06	0.06	0.06
22	1.2	0.6	0.4	0.8	1.0	0.8	0.5	0.4	0.2	0.06	0.06	0.06
23	0.8	0.5	0.4	0.8	1.0	0.8	0.4	0.4	0.2	0.06	0.06	0.06
24	0.8	0.5	0.8	1.0	1.0	0.8	0.4	0.4	0.2	0.06	0.06	0.06
25	0.8	0.5	0.6	1.0	1.0	0.8	0.4	0.4	0.2	0.06	0.06	0.06
26	0.8	0.5	0.5	1.0	1.0	0.8	0.5	0.4	0.2	0.06	0.06	0.06
27	1.0	0.4	0.5	0.8	1.0	0.8	17	0.3	0.2	0.06	0.06	0.06
28	1.0	0.4	0.5	0.8	1.0	1.0	1.5	0.4	0.2	0.06	0.06	0.06
29	0.8	0.5	0.5	0.8	1.8	0.8	0.9	0.3	0.2	0.06	0.06	0.06
30	1.2	0.5	0.5	0.8		0.8	0.8	0.3	0.2	0.03	0.06	0.06
31	1.0		0.5	0.8		0.6		0.3		0.03	0.06	
	34.1	19.8	13.8	48.1	43.7	29.9	34.3	15.7	8.0	3.02	1.80	1.80
MEAN	1.10	0.66	0.45	1.55	1.51	0.96	1.14	0.51	0.27	0.10	0.06	0.06
ACRE-FEET	68	39	27	95	87	59	68	31	16	6.0	3.6	3.6

Remarks:

YEAR OR PERIOD MEAN 0.69
ACRE-FEET 504.1

76D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

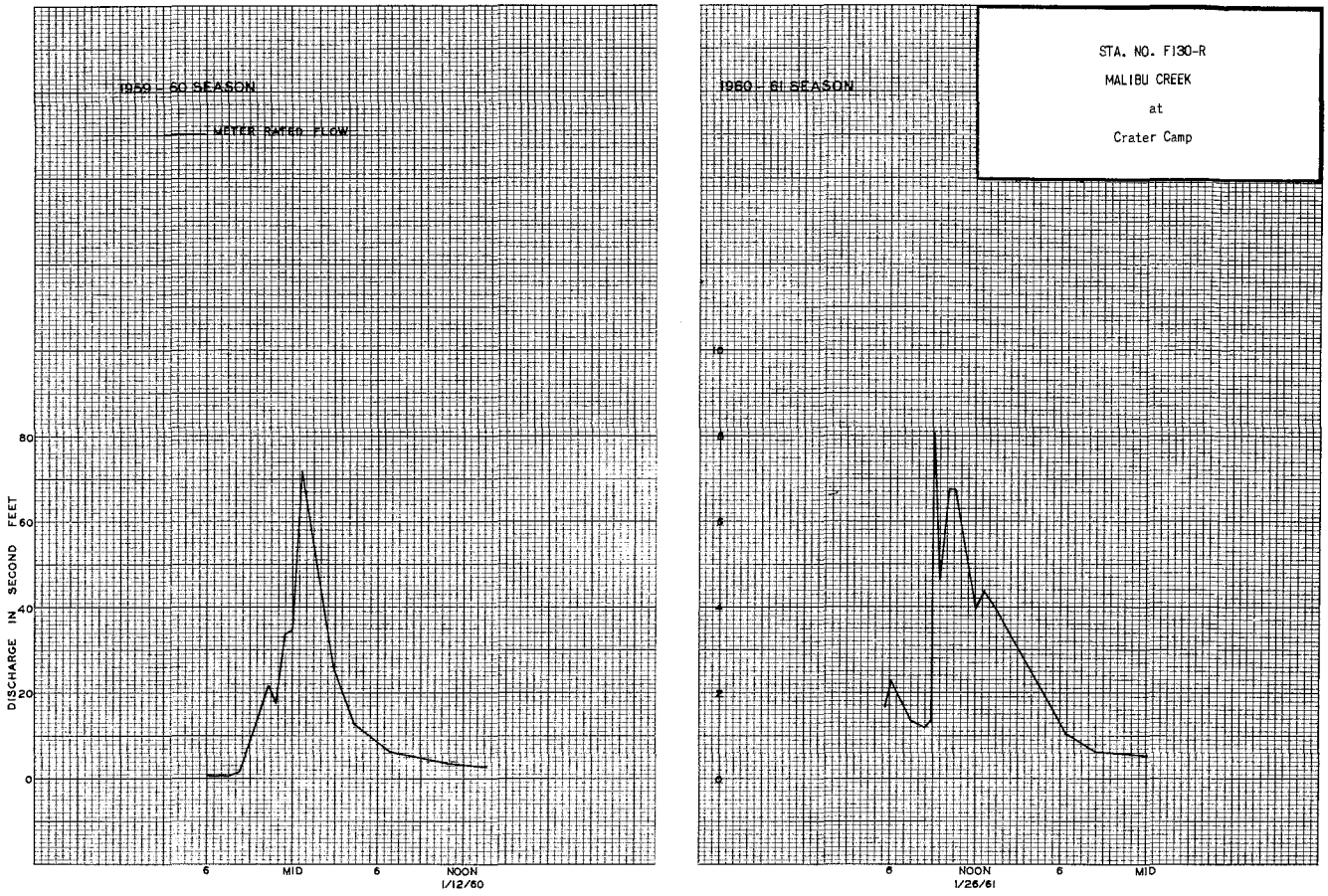
Sta. No. F130-R

Daily discharge, in second-feet of MALIBU CREEK at Crater Camp, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.06	0.03	0.06	0.2	0.3	0.3	0.2	0.2	0.06	0.06	0.02	0.02
2	0.06	0.03	0.06	0.2	0.3	0.3	0.2	0.2	0.06	0.06	0.02	0.02
3	0.06	0.03	0.06	0.3	0.3	0.3	0.2	0.2	0.06	0.06	0.03	0.02
4	0.06	0.06	0.06	0.3	0.3	0.3	0.3	0.2	0.06	0.06	0.03	0.02
5	0.06	0.06	0.06	0.2	0.3	0.3	0.3	0.2	0.06	0.06	0.03	0.01
6	0.06	0.06	0.06	0.2	0.3	0.3	0.3	0.2	0.06	0.06	0.03	0.01
7	0.06	0.06	0.06	0.2	0.3	0.3	0.3	0.2	0.06	0.06	0.06	0.02
8	0.06	0.06	0.06	0.2	0.3	0.3	0.3	0.2	0.06	0.06	0.03	0.02
9	0.03	0.06	0.06	0.2	0.3	0.3	0.3	0.2	0.06	0.06	0.03	0.02
10	0.03	0.06	0.06	0.2	0.3	0.3	0.2	0.2	0.06	0.06	0.03	0.02
11	0.03	0.2	0.06	0.2	0.3	0.3	0.2	0.2	0.06	0.06	0.03	0.02
12	0.03	0.4	0.06	0.2	0.3	0.2	0.2	0.2	0.06	0.06	0.03	0.03
13	0.03	0.3	0.06	0.2	0.3	0.2	0.2	0.2	0.06	0.03	0.03	0.03
14	0.03	0.06	0.06	0.2	0.3	0.2	0.2	0.2	0.06	0.03	0.03	0.03
15	0.03	0.06	0.06	0.2	0.3	0.4	0.2	0.2	0.06	0.03	0.03	0.03
16	0.03	0.2	0.06	0.2	0.3	0.3	0.2	0.2	0.06	0.03	0.03	0.03
17	0.03	0.06	0.06	0.2	0.3	0.3	0.2	0.2	0.06	0.03	0.03	0.03
18	0.03	0.06	0.06	0.2	0.3	0.3	0.2	0.2	0.06	0.03	0.03	0.03
19	0.03	0.2	0.06	0.2	0.3	0.3	0.2	0.2	0.06	0.03	0.03	0.03
20	0.03	0.06	0.06	0.3	0.3	0.3	0.2	0.2	0.06	0.03	0.03	0.06
21	0.03	0.06	0.06	0.3	0.3	0.3	0.2	0.2	0.06	0.06	0.03	0.06
22	0.03	0.06	0.06	0.3	0.3	0.3	0.3	0.2	0.06	0.03	0.03	0.06
23	0.03	0.06	0.06	0.3	0.2	0.3	0.3	0.2	0.06	0.02	0.02	0.06
24	0.03	0.06	0.06	0.3	0.3	0.3	0.3	0.2	0.06	0.02	0.02	0.06
25	0.03	0.06	0.06	0.3	0.3	0.2	0.2	0.2	0.06	0.02	0.02	0.06
26	0.03	0.2	0.06	2.0	0.3	0.2	0.2	0.2	0.06	0.02	0.02	0.06
27	0.03	0.3	0.06	0.3	0.3	0.2	0.2	0.2	0.06	0.02	0.02	0.03
28	0.03	0.2	0.06	0.3	0.3	0.2	0.2	0.2	0.06	0.02	0.02	0.03
29	0.03	0.06	0.06	0.3		0.2	0.2	0.2	0.06	0.01	0.02	0.03
30	0.03	0.06	0.06	0.3		0.2	0.2	0.2	0.06	0.01	0.02	0.03
31	0.03		0.06	0.3		0.2		0.06		0.02	0.02	
	1.17	3.23	1.86	9.3	8.3	8.4	6.9	6.06	1.80	1.22	0.85	0.98
MEAN	0.04	0.11	0.06	0.30	0.30	0.27	0.23	0.20	0.06	0.39	0.27	0.33
ACRE-FEET	2.3	6.4	3.7	18.	16.	17.	14.	12.	3.6	2.4	1.7	1.9

Remarks:

YEAR OR PERIOD MEAN 0.14
ACRE-FEET 99.



STATION F32B-R
MINT CANYON CREEK at Fitch Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°26'46", LONG. 118°25'39", ON THE RIGHT (WEST) UPSTREAM WINGWALL OF THE FITCH AVENUE BRIDGE. ELEVATION OF ZERO GAGE HEIGHT 1638.32 FEET.

DRAINAGE AREA: 26.92 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND GRAVEL, SOME WEED GROWTH. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF FITCH AVENUE BRIDGE.

RECORDER: AN H.C.F. CONTINUOUS RECORDER IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSION: NONE.

RECORDS AVAILABLE: OCTOBER 26, 1956 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 8.1 SECOND-FEET JANUARY 10.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM 64 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW MOST OF YEAR.
1956-61
MAXIMUM 708 SECOND-FEET DECEMBER 15, 1959.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F328-R

Daily discharge, in second-feet of MINT CANYON CREEK at Fitch Avenue for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0.1	0	0	0				
2	0	0	0	0	+	0	0	0				
3	0	0	0	0	0	0	0	0				
4	0	0	0	0	0	0	0	0				
5	0	0	0	0	0	0	0	0				
6	0	0	0	0	0	0	0	0				
7	0	0	0	0	0	0	0	0				
8	0	0	0	0	0	0	0	0				
9	0	0	0	0	0	0	0	0				
10	0	0	0	0	0	0	0	0				
11	0	0	0	0	0	0	0	0				
12	0	0	0	0	0	0	0	0				
13	0	0	0	0	0	0	0	0				
14	0	0	0	0	0	0	0	0				
15	0	0	0	0	0	0	0	0				
16	0	0	0	0	0	0	0	0				
17	0	0	0	0	0	0	0	0				
18	0	0	0	0	0	0	0	0				
19	0	0	0	0	0	0	0	0				
20	0	0	0	0	0	0	0	0				
21	0	0	0	0	0	0	0	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER
22	0	0	0	0	0	0	0					
23	0	0	0	0	0	0	0					
24	0	0	0	0	0	0	0					
25	0	0	0	0.2	0	0	0					
26	0	0	0	0	0	0	0					
27	0	0	0	0	0	0	0					
28	0	0	0	0	0	0	0					
29	0	0	0	0	0	0	0					
30	0	0	0	0		0	0					
31	0		0	0		0						
	0	0	0	0.9	0.1	0	E 0	E 0	E 0	E 0	E 0	E 0
MEAN	0	0	0	0.03	+	0	0	E 0	E 0	E 0	E 0	E 0
ACRE-FEET	0	0	0	1.8	0.2	0	0	E 0	E 0	E 0	E 0	E 0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN .003
ACRE-FEET 2.0

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

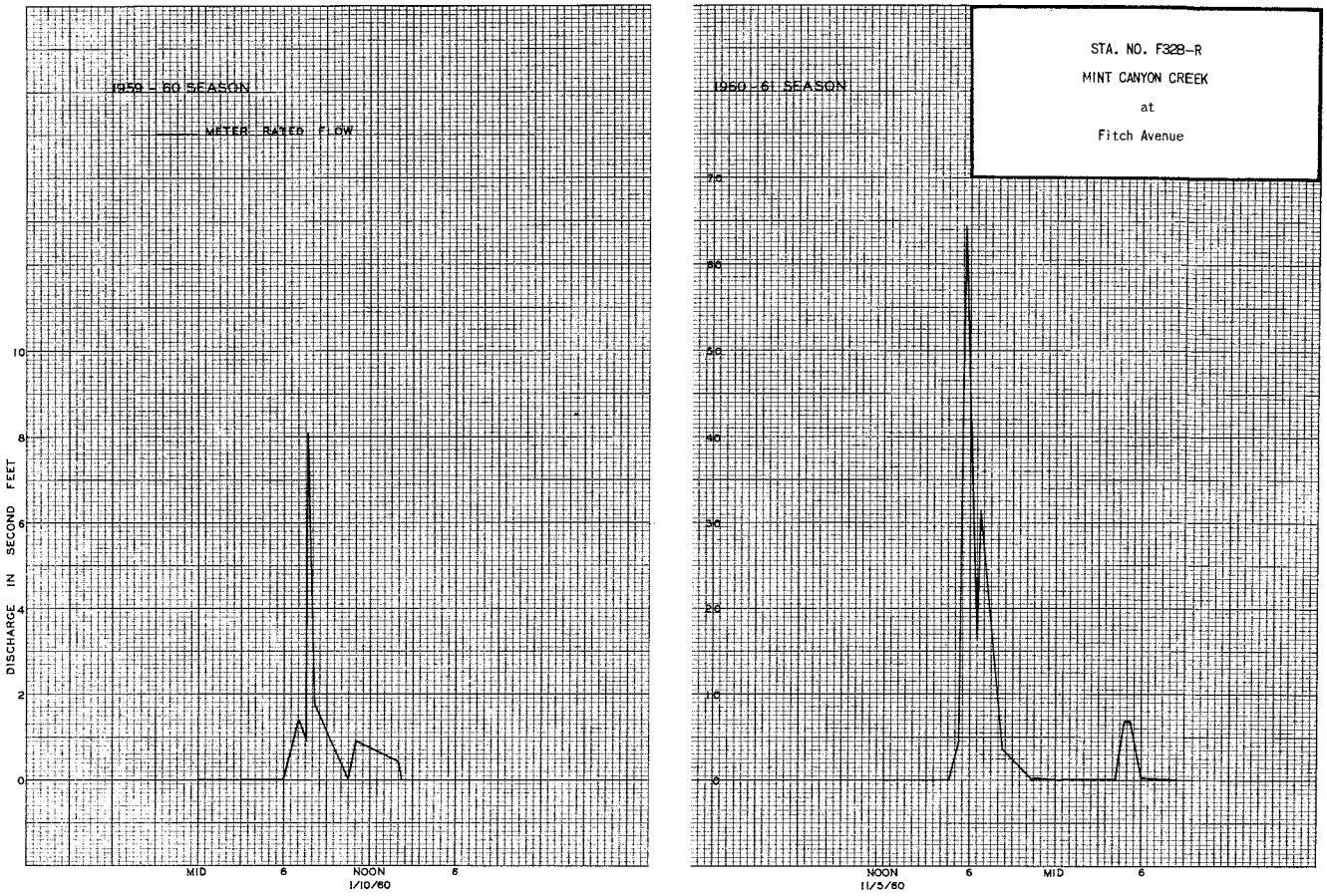
Sta. No. F328-R

Daily discharge, in second-feet of MINT CANYON CREEK at Fitch Avenue for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	+	0	0	0	0	0				0
2	0	0	0	0	0	0	0	0				0
3	0	+	0	0	0	0	0	0				0
4	0	0	0	0	0	0	0	0			e +	0
5	0	3.6	0	0	0	0	0	0				0
6	0	0.3	0	0	0	0	0	0				0
7	0	0	0	0	0	0	0	0				0
8	0	0	0	0	0	0	0	0				0
9	0	0	0	0	0	0	0	0				0
10	0	0	0	0	0	0	0	0				0
11	0	0	0	0	0	0	0	0			0	0
12	0	2.7	0	0	0	0	0	0			0	0
13	0	+	0	0	0	0	0	0			0	0
14	0	0	0	0	0	0	0	0			0	0
15	0	0	0	0	0	+	0	0			0	0
16	0	0	0	0	0	0	0	0			0	0
17	0	0	0	0	0	0	0	0			0	0
18	0	0	0	0	0	0	0	0			0	0
19	0	0	0	0	0	0	0	0			0	0
20	0	0	0	0	0	0	0	0			0	0
21	0	0	0	0	0	0	0	0			0	0
22	0	0	0	0	0	0	0	0			0	0
23	0	0	0	0	0	0	0	0			0	0
24	0	0	0	0	0	0	0	0			0	0
25	0	0	0	0	0	0	0	0			0	0
26	0	0.5	0	0.2	0	0	0	0			0	0
27	0	0	0	0	0	0	0	0			0	0
28	0	0	0	0	0	0	0	0			0	0
29	0	0	0	0		0	0	0			0	0
30	0	0	0	0		0	0	0			0	0
31	0		0	0		0					0	
	0	7.1	+	0.2	0	+	0	E 0	E 0	E 0	E +	E 0
MEAN	0	.24	+	+	0	+	0	E 0	E 0	E 0	E +	E 0
ACRE-FEET	0	14.	+	0.4	0	+	0	E 0	E 0	E 0	E +	E 0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN .02
ACRE-FEET 14.5



STATION F33C-R
MISSION CREEK below Legg Lake

LOCATION: WATER-STAGE RECORDER, LAT 34°02'09", LONG. 118°03'47", AT THE OUTLET FROM LEGG LAKE ON EAST SIDE OF ROSEMEAD BOULEVARD. ELEVATION OF ZERO GAGE HEIGHT ABOUT 204.0 FEET.

DRAINAGE AREA: 3.45 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - CONCRETE BOX CULVERT.
CONTROL - A 6-FOOT RECTANGULAR WEIR WITHOUT END CONTRACTIONS UNTIL JULY 13, 1960, A 3-FOOT CIPPOLETTI WEIR THEREAFTER.

DISCHARGE MEASUREMENTS: MEASURED BY WADING BELOW ROSEMEAD BOULEVARD.

RECORDER: A STEVENS TYPE L RECORDER IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: SOME WATER PUMPED TO KEEP LEGG LAKE LEVEL AND TO SATISFY EVAPORATION AND PERCOLATION FROM THE LAKE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: AUGUST 8, 1956 TO SEPTEMBER 30, 1961. SOME STREAM FLOW MEASUREMENTS WERE MADE STARTING JUNE 7, 1956.

OPERATION: LOCATED AND CONSTRUCTED BY THE LOS ANGELES COUNTY ENGINEER DEPARTMENT, OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D7431 Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F330-R

Daily discharge, in second-feet of MISSION CREEK below Legg Lake, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	v 1.0	v 2.1	+	v 1.7	v 1.3	v 0.9	v 1.6	v 0.7	v 1.1	v 0.7	0.8	0.6
2	1.2	2.0	+	1.8	1.2	0.6	1.6	0.6	1.1	0.5	1.0	0.6
3	1.1	2.0	1.0	1.8	1.0	0.9	1.6	0.5	1.1	0.3	1.0	0.5
4	1.0	1.9	2.3	1.9	1.0	1.1	1.6	0.4	1.1	0.2	1.0	0.5
5	2.0	1.9	2.4	1.9	1.4	0.8	1.6	1.0	1.1	0.7	1.0	0.5
6	2.4	1.9	2.5	2.0	1.4	0.7	1.6	1.7	1.2	0.7	0.8	0.6
7	2.2	1.9	2.7	2.0	1.3	0.6	1.6	1.6	1.2	0.7	0.8	0.7
8	2.1	1.9	2.8	1.9	1.3	0.5	1.6	1.5	1.2	0.5	1.0	0.6
9	2.1	1.9	2.9	1.8	1.2	0.6	1.6	1.4	1.2	0.4	1.1	0.6
10	2.1	1.9	3.0	1.6	1.0	0.9	1.5	1.3	1.2	0.4	1.2	0.5
11	2.1	1.9	2.9	1.4	1.0	1.3	1.4	1.2	1.2	0.5	1.1	0.5
12	2.1	1.9	2.7	1.3	1.5	1.2	1.3	1.2	1.2	0.6	1.1	0.6
13	2.0	1.9	2.6	1.1	1.5	1.1	1.4	1.1	1.2	v 1.0	1.1	0.5
14	1.7	1.9	2.4	1.0	1.5	1.0	1.2	1.0	1.2	0.4	1.1	0.5
15	1.7	1.9	2.3	1.1	1.7	0.9	0.9	1.1	1.2	0.5	0.8	0.5
16	1.7	1.9	2.1	1.2	1.6	0.8	0.9	1.2	1.2	0.4	0.8	0.6
17	1.7	1.9	2.0	1.3	1.2	0.7	0.8	1.2	1.2	0.2	0.7	0.5
18	1.7	2.0	1.9	1.4	1.0	1.1	0.7	1.2	1.2	0.6	0.6	0.6
19	1.7	2.1	1.8	1.5	1.3	1.0	0.6	1.2	1.2	1.3	0.6	0.6
20	1.8	2.1	1.7	1.6	1.1	0.9	0.6	1.2	1.2	1.2	0.6	0.6
21	2.1	2.0	1.6	1.7	1.0	0.8	1.0	1.1	1.2	0.8	0.6	0.6
22	2.4	1.9	1.5	1.6	0.9	0.7	1.4	1.1	1.2	1.1	0.6	0.5
23	2.4	2.0	1.4	1.5	1.3	0.6	1.0	1.1	1.2	2.0	0.6	0.5
24	2.4	2.4	1.4	1.4	1.3	0.7	0.9	1.0	1.2	1.9	0.6	0.5
25	2.3	2.0	1.4	1.4	1.4	0.6	0.8	1.0	1.1	1.2	0.6	0.5
26	2.3	1.5	1.4	1.4	1.5	0.8	1.2	1.0	1.0	1.2	0.7	0.5
27	2.3	1.1	1.4	1.4	1.5	0.6	1.1	1.0	1.0	1.1	0.6	0.5
28	2.2	0.8	1.2	1.4	1.3	0.5	1.0	1.0	0.9	1.0	0.6	0.6
29	2.2	+	0.5	1.4	1.2	0.8	0.9	1.0	0.8	1.0	0.6	0.6
30	2.2	+	0.9	1.3		0.6	v 0.8	1.0	v 0.7	0.9	0.8	0.6
31	v 2.1		v 1.7	v 1.3		v 1.1		v 0.8		0.8	0.6	
	60.3	52.6	56.4	47.1	36.9	25.2	35.8	33.4	33.8	24.8	25.1	16.6
MEAN	1.95	1.75	1.82	1.52	1.27	0.81	1.19	1.08	1.13	0.80	0.81	0.55
ACRE-FEET	120	104	112	93	73	50	71	66	67	49	50	33

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 1.22
ACRE-FEET 888.

76D7431 Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F330-R

Daily discharge, in second-feet of MISSION CREEK below Legg Lake, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.6	0.7	0.2	0.2	0.2	0.5	0.8	0.6	0.3	0.1	+
2	0.6	0.6	0.7	0.2	0.3	0.3	0.4	0.8	0.6	0.3	0.1	0.1
3	0.6	0.6	0.6	0.2	0.3	0.2	0.4	0.8	0.6	0.2	+	0.2
4	0.6	0.5	0.6	0.4	0.3	0.2	0.3	0.8	0.6	0.2		0.2
5	0.6	0.6	0.6	0.2	0.3	0.2	0.3	0.8	0.6	0.2		0.2
6	0.6	0.6	0.6	+	0.3	0.2	0.3	0.8	0.8	0.1		0.2
7	0.6	0.6	0.6		0.3	0.2	0.3	0.8	0.8	0.1		0.2
8	0.5	0.6	0.5		0.3	+	0.3	0.6	0.8	0.1		0.2
9	0.6	0.6	0.6		0.3	0.2	0.3	0.8	0.7	0.1		0.2
10	0.6	0.6	0.6		0.3	0.4	0.3	0.8	0.8	0.1		0.2
11	0.6	0.5	0.5		0.3	0.3	0.3	1.0	0.7	0.1		0.2
12	0.6	0.5	0.5		0.3	0.3	0.4	1.0	0.6	0.1		0.1
13	0.5	0.5	0.5		0.3	0.3	0.4	0.9	0.7	0.2		0.1
14	0.4	0.6	0.4		0.3	0.3	0.5	0.6	0.7	0.2		0.1
15	0.5	0.6	0.5		0.3	0.3	0.4	0.7	0.6	0.2		0.1
16	0.5	0.6	0.5		0.3	0.4	0.7	0.8	0.6	0.2	+	0.1
17	0.6	0.6	0.2		0.3	0.5	0.5	0.8	0.6	0.2	0.1	0.1
18	0.6	0.6	0.3	+	0.3	0.5	0.4	0.8	0.6	0.2	0.1	0.1
19	0.6	0.6	0.3	0.1	0.3	0.5	0.6	0.8	0.6	0.2	+	0.1
20	0.5	0.6	0.3	0.2	0.3	0.4	0.8	0.8	0.5	0.1		0.1
21	0.5	0.6	0.3	0.2	0.3	0.3	0.9	0.8	0.5	0.2		0.2
22	0.6	0.6	0.3	+	0.3	0.2	0.9	0.8	0.4	0.2		0.3
23	0.6	0.6	0.3	0.2	0.3	0.2	0.6	0.8	0.3	0.1	+	0.3
24	0.6	0.6	0.3	0.2	0.3	0.2	0.8	0.8	0.3	0.1	0.1	0.3
25	0.6	0.6	0.3	0.2	0.3	0.1	0.8	0.7	0.3	+	0.2	0.2
26	0.5	0.5	0.3	0.2	0.2	+	0.8	0.5	0.2	+	0.1	0.2
27	0.5	0.4	0.3	0.3	0.2	+	0.8	0.2	0.3	+	0.1	0.2
28	0.5	0.5	0.3	0.4	0.2	+	0.8	0.4	0.4	0.1	0.1	0.2
29	0.4	0.5	0.2	0.3		0.2	0.8	0.5	0.2	0.1	+	0.2
30	0.6	0.4	0.2	0.2		0.1	0.7	0.5	0.1	0.1	+	0.3
31	0.7		0.3	0.2		0.4		0.5		0.1	+	
	17.2	16.8	12.2	3.9	7.9	7.2	16.2	22.5	16.7	4.4	1.0	5.2
MEAN	0.55	0.55	0.39	0.13	0.28	0.33	0.54	0.73	0.56	0.14	0.03	0.17
ACRE-FEET	34.	33.	24.	7.7	16.	14.	32.	45.	33.	8.7	2.0	10.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.36
ACRE-FEET 260.

STATION F83-R
MISSION CREEK at San Gabriel Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°01'47", LONG. 118°04'07", ON THE UPSTREAM END OF THE RIGHT (WEST) ABUTMENT OF SAN GABRIEL BOULEVARD BRIDGE, JUST EAST OF THE RIO HONDO, ABOUT TWO MILES NORTHEAST OF MONTEBELLO. ELEVATION OF ZERO GAGE HEIGHT ABOUT 188.2 FEET.

DRAINAGE AREA: ABOUT 4.15 SQUARE MILES. FLOW ORIGINATES ALMOST ENTIRELY FROM RISING WATER.

CHANNEL AND CONTROL: CHANNEL - SAND COVERED WITH WEEDS AND BRUSH; SOME CROSS FENCES WHICH CATCH DEBRIS. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING AT STATION; HIGH FLOWS MEASURED FROM HIGHWAY BRIDGE.

RECORDER: A HORIZONTAL RATIONAL 7-DAY RECORDER WAS IN SERVICE OCTOBER 1, 1959 TO MAY 2, 1961; A STEVENS TYPE L WEEKLY RECORDER FROM MAY 2, 1961 TO SEPTEMBER 30, 1961.

REGULATION: PARTIALLY REGULATED BY OUTFLOW FROM LECG LAKE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: JUNE 14, 1930 TO SEPTEMBER 30, 1961. SOME WEEKLY STREAM FLOW MEASUREMENTS WERE TAKEN PRIOR TO INSTALLATION OF RECORDER IN 1930.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 5.8 SECOND-FEET FEBRUARY 1.
MINIMUM 0.1 SECOND-FOOT VARIOUS TIMES IN OCTOBER.
1960-61
MAXIMUM MEAN DAILY 2.0 SECOND-FEET FEBRUARY 9.
MAXIMUM NO FLOW AT VARIOUS TIMES.
1930-61
MAXIMUM DISCHARGE NOT DETERMINED, MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD, 336 SECOND-FEET FEBRUARY 22, 1944.
MINIMUM NO FLOW IN JUNE, JULY, AUGUST AND SEPTEMBER 1961.

ACCURACY: GOOD.

REMARKS: MISSION CREEK RECORD AS USED IN THE RISING WATER FORMULA IS DERIVED FROM Q VS. ELEVATION OF WATER SURFACE IN WELL 2946.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

760T4M Gdb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F83-R

Daily discharge, in second-feet of MISSION CREEK at San Gabriel Boulevard, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.0	4.2	2.5	4.6	4.8	3.7	3.8	3.0	2.3	1.0	1.1	0.9
2	3.4	4.1	2.5	4.6	3.9	3.8	3.9	3.0	2.3	0.9	1.1	0.8
3	3.5	3.9	3.1	4.6	3.9	4.1	3.8	2.9	2.2	0.9	1.1	0.8
4	3.6	3.8	4.7	4.7	4.5	4.6	3.6	2.8	2.1	0.8	1.1	0.7
5	3.7	3.9	4.7	4.7	5.0	4.3	3.4	3.1	2.1	1.0	1.0	0.7
6	3.8	4.0	4.7	4.6	5.0	4.3	3.4	3.9	2.2	1.9	0.8	0.8
7	3.8	4.2	4.7	4.5	4.9	4.2	a 3.4	3.4	2.3	1.2	0.8	0.8
8	3.8	4.2	4.7	a 4.5	4.9	4.0	a 3.4	3.5	2.2	1.0	0.9	0.6
9	3.7	4.3	4.7	4.5	4.9	3.8	3.4	3.3	2.2	1.0	1.0	0.6
10	3.7	4.5	4.7	4.5	4.7	3.9	3.4	3.2	2.2	1.0	1.0	0.5
11	3.6	4.6	4.7	4.4	4.7	4.2	3.4	2.9	2.3	1.1	1.1	0.5
12	3.6	4.6	4.7	4.4	5.0	4.1	3.2	2.7	2.2	1.2	1.0	0.5
13	3.5	4.6	4.6	4.4	5.2	4.0	3.2	2.7	2.2	1.8	1.0	0.4
14	3.4	4.5	4.6	4.8	5.2	4.0	3.2	2.7	2.2	1.0	1.1	0.3
15	3.3	4.2	4.4	5.2	5.3	4.0	3.1	2.6	2.2	1.0	0.9	0.4
16	3.3	4.1	4.3	5.1	4.3	3.9	2.8	2.8	1.9	1.0	0.7	0.6
17	3.3	3.9	4.3	5.1	4.8	4.0	2.7	2.7	1.8	0.7	0.7	0.3
18	3.3	4.0	4.3	5.2	4.7	4.1	2.8	2.7	2.0	0.9	0.6	0.6
19	3.3	3.9	4.3	5.2	4.8	3.9	2.9	2.7	1.8	1.8	0.6	0.7
20	3.3	4.0	4.3	5.0	4.6	3.8	2.9	2.8	1.8	1.8	0.6	0.6
21	4.5	3.8	4.2	4.9	4.5	3.6	3.0	2.8	2.1	1.1	0.7	0.7
22	4.6	3.8	3.8	4.5	4.5	3.6	3.2	2.7	2.0	1.2	0.8	0.8
23	4.5	4.0	3.6	4.5	4.5	3.5	3.1	2.7	2.0	1.8	0.6	0.6
24	4.5	4.2	3.9	4.4	4.8	3.5	2.9	2.6	2.0	1.8	0.6	0.6
25	4.1	4.0	3.8	4.3	4.5	3.5	2.9	2.7	1.9	1.3	0.6	0.6
26	4.1	3.3	3.8	4.3	4.6	3.4	3.2	2.6	1.8	1.2	0.8	0.6
27	4.1	2.9	3.8	4.4	4.5	3.5	4.2	2.6	1.6	1.2	0.8	0.6
28	4.0	2.7	3.6	4.5	4.6	3.3	3.3	2.4	1.3	1.2	1.0	0.8
29	4.1	2.6	3.3	4.4	4.1	3.2	3.2	2.4	1.0	1.1	1.0	0.8
30	4.4	2.6	3.8	4.5		3.1	3.2	2.4	0.8	1.2	1.2	0.7
31	4.4		4.5	4.6		3.3		2.3		1.2	0.9	
	117.2	117.4	127.6	143.9	135.7	118.2	97.9	87.8	59.0	37.3	27.2	18.9
MEAN	3.78	3.91	4.12	4.64	4.68	3.81	3.26	2.83	1.97	1.20	0.88	0.63
ACRE-FEET	232	233	253	285	269	234	194	174	117	74	54	37

Remarks:

YEAR OR PERIOD MEAN 2.97
ACRE-FEET 2160.

5SD74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F83-R

Daily discharge, in second-feet of MISSION CREEK at San Gabriel Boulevard, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.7	a 0.8	1.6	1.5	1.6	1.1	1.7	e 0.9	0.3	0	0	0
2	0.8	a 0.8	1.6	1.5	1.6	1.2	1.6	e 0.9	0.6	0	0	0
3	0.8	a 0.9	1.6	1.6	1.6	1.4	1.4	0.9	0.6	0	0	0
4	0.8	0.9	1.6	1.7	1.7	1.4	1.2	1.0	0.6	0	0	0
5	0.8	1.0	1.6	1.6	1.7	1.4	1.1	1.0	0.6	0	0	0
6	0.7	1.0	1.6	1.3	1.8	1.4	1.1	1.0	0.9	0	0	0
7	0.7	1.0	1.6	1.3	1.8	1.5	1.1	1.0	0.8	0	0	0
8	0.7	1.0	1.6	1.3	1.8	1.2	1.2	0.9	0.9	0	0	0
9	0.7	1.0	1.6	1.3	2.0	1.2	1.2	0.9	0.9	0	0	0
10	0.9	1.0	1.6	1.3	1.8	1.4	1.1	0.9	0.9	0	0	0
11	0.8	1.0	1.6	1.3	1.7	1.5	1.0	0.9	0.8	0	0	0
12	0.8	1.0	1.6	1.3	1.7	1.4	1.0	0.9	0.5	0	0	0
13	0.8	1.2	1.6	1.3	1.7	1.3	0.9	0.9	0.7	0	0	0
14	0.8	1.2	1.4	1.3	1.5	1.3	1.0	1.0	0.6	0	0	0
15	0.8	1.2	1.2	1.2	1.5	1.4	0.9	0.9	0.4	0	0	0
16	0.8	1.2	1.2	1.0	1.5	1.6	0.9	1.0	0.3	0	0	0
17	0.7	1.2	1.4	0.9	1.5	1.8	1.0	1.0	0.4	0	0	0
18	0.8	1.2	1.4	0.9	1.5	1.9	0.8	0.9	0.4	0	0	0
19	0.7	1.2	1.5	1.0	1.5	1.8	0.9	0.9	0.4	0	0	0
20	0.6	1.3	1.5	1.2	1.5	1.8	0.9	0.9	0.3	0	0	0
21	0.6	1.3	1.5	1.2	1.6	1.5	1.0	0.8	0.2	0	0	0
22	0.7	1.3	1.6	1.0	1.6	1.4	1.2	0.8	0.3	0	0	0
23	0.8	1.3	1.6	1.2	1.6	1.2	1.2	0.8	0.1	0	0	0
24	0.7	1.3	1.6	1.3	1.6	1.1	1.1	0.8	0	0	0	0
25	0.7	1.4	1.6	1.8	1.4	1.1	1.2	0.7	0	0	0	0
26	0.6	1.4	1.6	1.8	1.2	1.1	1.0	0.5	0	0	0	0
27	0.7	1.5	1.6	1.6	1.1	1.1	e 0.9	0.3	0	0	0	0
28	a 0.7	1.6	1.6	1.6	1.1	1.2	0.9	0.2	+	0	0	0
29	a 0.7	1.6	1.5	1.6		1.3	0.9	0.4	0	0	0	0
30	a 0.8	1.5	1.5	1.6		1.3	e 0.9	0.4	0	0	0	0
31	a 0.8		1.6	1.6		1.6		0.3		0	0	
	23.0	35.3	47.7	42.1	44.2	42.9	32.3	24.7	12.5	0	0	0
MEAN	0.74	1.18	1.54	1.36	1.58	1.38	1.1	0.80	0.42	0	0	0
ACRE-FEET	46.	70.	95.	84.	88.	85.	64.	49.	25.	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.83
ACRE-FEET 606.

STATION E321-R
MISSION CREEK below Whittier Narrows Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°01'15", LONG. 118°04'15", ON LEFT (EAST) BANK ABOUT 400 FEET BELOW WHITTIER NARROWS DAM AND 1.4 MILES NORTH OF PICO. ELEVATION OF GAGE HEIGHT 187.1 FEET.

RECORDS AVAILABLE: DECEMBER 1955 TO SEPTEMBER 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM DAILY 5.5 SECOND-FEET JANUARY 12.
MINIMUM 0.1 SECOND-FOOT SEPTEMBER 14-16.
1960-61
MAXIMUM DAILY 2.3 SECOND-FEET DECEMBER 24-25.
MINIMUM NO FLOW AT VARIOUS TIMES.
1955-61
MAXIMUM DAILY 18 SECOND-FEET JANUARY 6, 1959.
MINIMUM NO FLOW AT VARIOUS TIMES.

REMARKS: RECORDS GOOD. FLOW IS ALMOST ENTIRELY FROM GROUND-WATER SEEPAGE.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH. SIXTY-FOUR DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E321-R

Daily discharge, in second-feet of MISSION CREEK below Whittier Narrows Dam, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.1	3.4	2.4	4.2	4.6	4.6	3.8	2.6	1.9	1.3	0.6	0.5
2	2.5	3.4	2.4	4.4	4.9	4.4	3.6	2.7	1.9	0.8	0.6	0.5
3	2.5	3.4	2.7	4.2	4.6	4.4	3.5	2.5	1.9	0.6	0.6	0.5
4	2.4	3.5	4.1	4.2	4.6	4.7	3.4	2.5	2.1	0.5	0.5	0.4
5	2.8	3.5	4.1	4.2	4.9	4.6	3.2	2.6	2.1	0.5	0.5	0.4
6	3.1	3.5	3.9	4.4	4.9	4.2	3.1	3.4	2.2	0.7	0.5	0.4
7	3.1	3.5	3.9	4.2	4.7	4.1	3.2	3.1	2.2	0.8	0.4	0.4
8	3.2	3.5	3.9	3.9	4.7	4.1	3.2	3.2	2.2	0.6	0.5	0.3
9	3.1	3.6	3.9	3.9	4.7	3.9	3.2	3.1	2.1	0.5	0.5	0.2
10	3.1	3.6	3.9	4.1	4.7	4.1	3.2	2.9	1.9	0.5	0.6	0.2
11	2.9	3.8	3.9	4.4	4.7	4.2	3.2	2.8	1.8	0.7	0.6	0.2
12	2.9	3.9	3.9	5.5	4.9	3.9	2.9	2.7	1.6	0.7	0.5	0.3
13	2.8	3.9	3.9	4.2	4.9	3.8	2.9	2.4	1.7	0.8	0.5	0.2
14	2.4	3.9	3.9	4.6	4.9	3.6	2.9	2.3	1.7	0.6	0.5	0.1
15	2.3	3.9	3.8	4.9	4.9	3.6	2.9	2.4	1.7	0.5	0.4	0.1
16	2.2	3.9	3.8	4.7	5.0	3.5	2.4	2.7	1.6	0.5	0.3	0.1
17	2.1	3.9	3.9	4.7	4.7	3.5	2.4	2.5	1.6	0.4	0.3	0.2
18	2.1	3.9	3.9	4.9	4.6	3.5	2.4	2.5	1.5	0.7	0.2	0.3
19	2.2	4.1	3.9	4.9	4.7	3.5	2.4	2.5	1.5	1.7	0.2	0.4
20	2.2	4.2	3.9	4.9	4.4	3.2	2.3	2.4	1.4	1.8	0.3	0.4
21	2.8	3.9	3.9	4.7	4.2	3.1	2.3	2.4	1.3	1.3	0.3	0.4
22	2.9	3.9	3.6	4.4	4.4	3.1	2.6	2.3	1.3	0.9	0.4	0.5
23	2.9	3.9	3.5	4.2	4.4	3.2	2.7	2.3	1.3	1.4	0.3	0.5
24	3.1	3.9	3.6	4.2	4.4	3.2	2.5	2.3	1.3	1.4	0.3	0.4
25	2.9	3.6	3.6	4.2	4.4	3.2	2.5	2.3	1.3	0.9	0.4	0.4
26	3.1	2.8	3.5	4.2	4.6	3.2	2.7	2.3	1.3	0.8	0.5	0.4
27	3.2	2.7	3.6	4.2	4.6	3.1	3.9	2.1	1.3	0.8	0.5	0.4
28	3.5	2.5	3.6	4.2	4.6	3.1	3.4	1.9	1.2	0.7	0.5	0.5
29	3.5	2.5	3.5	4.2	4.7	2.9	3.2	1.8	1.2	0.6	0.6	0.5
30	3.5	2.5	3.5	4.4		2.9	2.9	1.8	1.2	0.6	0.7	0.5
31	3.4		4.2	4.4		2.9		1.7		0.6	0.5	
	86.8	106.7	114.5	136.7	135.3	113.3	89.0	77.4	49.6	25.2	14.1	10.6
MEAN	2.80	3.56	3.69	4.41	4.67	3.65	2.97	2.50	1.65	0.81	0.45	0.35
ACRE-FEET	172.	212.	227.	271.	268.	225.	177.	154.	98.	50.	28.	21.

Remarks:

YEAR OR PERIOD MEAN 2.62
ACRE-FEET 1,900.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E321-R

Daily discharge, in second-feet of MISSION CREEK below Whittier Narrows Dam, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	0.3	0.6	1.1	1.5	1.0	0.9	0.5	0	0	0	0
2	0.5	0.3	0.9	1.1	1.6	1.0	0.9	0.6	0.1	0	0	0
3	0.4	0.3	0.9	1.2	1.6	1.1	0.8	0.6	0.2	0	0	0
4	0.4	0.2	0.9	1.3	1.6	1.2	0.7	0.6	0.2	0	0	0
5	0.4	0.4	0.9	1.2	1.6	1.2	0.6	0.6	0.2	0	0	0
6	0.3	0.4	1.0	1.2	1.7	1.1	0.6	0.6	0.2	0	0	0
7	0.2	0.4	1.2	1.2	1.8	1.1	0.7	0.5	0.2	0	0	0
8	0.3	0.4	1.2	1.2	1.8	1.1	0.7	0.4	0.2	0	0	0
9	0.2	0.4	1.2	1.2	2.0	1.1	0.7	0.4	0.2	0	0	0
10	0.4	0.4	1.2	1.2	2.0	1.2	0.7	0.5	0.2	0	0	0
11	0.4	0.6	1.1	1.0	1.6	1.3	0.6	0.5	0.2	0	0	0
12	0.4	0.6	1.0	0.8	1.6	1.2	0.6	0.5	0.1	0	0	0
13	0.3	0.6	0.9	0.7	1.6	1.2	0.6	0.5	0.2	0	0	0
14	0.3	0.6	0.8	0.7	1.5	1.3	0.6	0.5	0.2	0	0	0
15	0.3	0.6	0.7	0.6	1.5	1.4	0.5	0.5	0.1	0	0	0
16	0.3	0.6	0.6	0.6	1.5	1.5	0.5	0.5	0	0	0	0
17	0.3	0.6	0.6	0.6	1.5	1.6	0.5	0.5	0	0	0	0
18	0.3	0.6	0.8	0.6	1.5	1.6	0.5	0.5	0.1	0	0	0
19	0.3	0.6	0.9	0.6	1.4	1.6	0.5	0.5	0	0	0	0
20	0.3	0.6	0.9	0.7	1.2	1.6	0.6	0.5	0	0	0	0
21	0.3	0.6	0.9	0.7	1.2	1.2	0.6	0.5	0	0	0	0
22	0.3	0.6	0.9	0.6	1.2	1.0	0.6	0.5	0	0	0	0
23	0.3	0.7	1.3	0.6	1.2	0.8	0.7	0.5	0	0	0	0
24	0.3	0.7	2.3	0.9	1.2	0.8	0.7	0.5	0	0	0	0
25	0.3	0.7	2.3	0.9	1.2	0.8	0.7	0.4	0	0	0	0
26	0.3	0.7	1.9	1.5	1.2	0.9	0.6	0.2	0	0	0	0
27	0.2	0.7	1.1	1.4	1.0	1.0	0.6	0.1	0	0	0	0
28	0.2	0.7	1.1	1.5	1.0	1.1	0.6	0	0	0	0	0
29	0.2	0.7	1.1	1.5		1.0	0.5	0.1	0	0	0	0
30	0.2	0.7	1.1	1.5		0.9	0.5	0.1	0	0	0	0
31	0.3		1.1	1.5		0.9		0		0	0	
	9.7	16.3	33.8	31.4	41.3	35.8	18.9	13.2	2.6	0	0	0
MEAN	0.31	0.54	1.09	1.01	1.48	1.15	0.63	0.43	0.09	0	0	0
ACRE-FEET	19.	32.	67.	62.	82.	71.	37.	26.	5.2	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.56
ACRE-FEET 401.

STATION F22-R
MONROVIA CREEK above Sawpit Creek

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'28", LONG. 117°59'22", ON THE RIGHT (WEST) BANK OF MONROVIA CREEK 200 FEET UPSTREAM FROM SAWPIT CREEK AND ABOUT 2.5 MILES NORTH OF MONROVIA. ELEVATION OF ZERO GAGE HEIGHT 1152.66 FEET.

DRAINAGE AREA: 1.9 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - ROCK AND GRAVEL.
CONTROL - NATURAL CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM HIGHWAY BRIDGE BELOW STATION.

RECORDER: AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE

DIVERSIONS: MONROVIA PIPE LINE DIVERTS WATER ABOVE GAGE.

RECORDS AVAILABLE: NOVEMBER 10, 1927 TO JANUARY 21, 1954, AND FROM MARCH 22, 1955 TO SEPTEMBER 30, 1961. WADING MEASUREMENTS ONLY DURING PERIOD OF NO RECORDER RECORD.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 4.9 SECOND-FEET FEBRUARY 29.
MINIMUM PLUS FLOW SEVERAL MONTHS.
1960-61
MAXIMUM 8.8 SECOND-FEET NOVEMBER 12.
MINIMUM PLUS FLOW PART OF YEAR.
1927-61
MAXIMUM DISCHARGE NOT DETERMINED MARCH 2, 1938.
MAXIMUM 486 SECOND-FEET JANUARY 25, 1954 ESTIMATED AT FALLS (MUD FLOW).
MINIMUM NO FLOW AT TIMES.

ACCURACY: POOR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D764M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F22-R

Daily discharge, in second-feet of MONROVIA CREEK above Sawpit Creek, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	e 0.03	e 0.03	e 0.05	e 0.09	0.3	0.5	0.1	0.1	0.03	0.03	e 0.02	a 0.02
2	0.03	0.03	0.05	0.09	0.1	b 0.2	0.1	0.1	0.03	0.03	0.02	e 0.02
3	0.03	0.03	0.05	0.08	0.1	0.1	0.1	0.1	0.03	0.03	0.02	0.02
4	0.03	0.03	0.05	0.08	0.1	0.1	0.1	0.1	0.03	0.03	0.02	0.02
5	0.03	0.03	0.05	0.08	0.1	0.1	0.07	0.1	0.03	0.03	0.02	0.02
6	0.03	0.03	0.05	0.08	0.1	0.2	0.07	0.1	0.03	0.03	0.02	0.02
7	0.03	0.03	0.06	0.08	0.1	0.2	0.07	0.1	0.03	0.03	0.02	0.02
8	0.03	0.03	0.06	0.08	0.3	0.1	0.07	0.1	0.03	0.03	0.02	0.02
9	0.03	0.03	o 0.06	e 0.08	0.2	0.07	0.07	0.1	0.03	0.03	0.02	0.02
10	0.03	0.03	a 0.06	0.2	0.2	0.07	0.03	0.1	0.03	0.03	0.02	0.02
11	0.03	0.03	0.06	0.2	0.2	0.07	0.1	0.1	0.03	0.03	0.02	0.02
12	0.03	0.03	0.06	0.3	0.2	0.07	0.07	0.1	0.03	0.03	0.02	0.02
13	0.03	0.03	0.06	0.1	0.2	0.07	0.07	0.07	0.03	0.03	0.02	0.02
14	0.03	0.03	0.07	0.2	0.2	0.2	0.07	0.07	0.03	0.02	0.02	0.02
15	0.03	0.03	0.07	0.2	0.1	0.2	0.07	0.07	0.03	0.02	0.02	0.02
16	0.03	0.03	0.07	0.2	0.1	0.1	0.07	0.07	0.03	0.02	0.02	0.02
17	0.03	0.03	a 0.07	0.1	0.1	0.07	0.07	0.07	0.03	0.02	0.02	0.02
18	0.03	0.03	e 0.07	0.1	0.1	0.03	0.07	0.07	0.03	0.02	0.02	0.02
19	0.03	0.03	0.07	0.1	0.1	0.03	0.07	0.07	0.03	0.02	0.02	0.02
20	0.03	0.03	0.06	0.1	0.1	0.03	0.07	0.07	0.03	0.02	0.02	0.02
21	0.03	0.03	0.06	0.1	0.1	0.07	0.07	0.07	0.03	0.02	0.02	0.02
22	0.03	0.03	0.06	0.1	0.1	0.07	0.1	0.07	0.03	0.02	0.02	0.02
23	0.03	0.04	e 0.06	0.1	0.1	0.07	0.1	0.07	0.03	0.02	0.02	0.02
24	0.03	0.04	0.2	0.1	0.1	0.07	0.1	0.07	0.03	0.02	e 0.02	0.02
25	0.03	0.04	e 0.09	0.1	0.1	0.07	0.1	0.07	0.03	0.02	a 0.02	0.02
26	0.02	0.04	0.09	0.1	0.1	0.1	0.2	0.07	0.03	0.02	0.02	e 0.01
27	0.02	0.04	0.09	0.1	0.1	0.2	1.0	0.07	0.03	0.02	0.02	a 0.01
28	0.02	0.04	0.09	0.1	0.1	0.4	0.7	0.07	0.03	0.02	0.02	a 0.01
29	0.02	0.04	0.09	0.1	0.7	0.4	0.6	0.07	0.03	0.02	0.02	e 0.01
30	0.03	e 0.05	0.09	0.1		0.1	0.4	0.03	0.03	0.02	0.02	e 0.01
31	e 0.03		e 0.09	0.1		0.1		0.03		e 0.02	a 0.02	
	0.89	0.99	2.21	3.64	4.5	4.16	4.88	2.45	0.90	0.75	0.62	0.55
MEAN	0.03	0.03	0.07	0.12	0.16	0.13	1.63	0.08	0.03	0.02	0.02	0.02
ACRE-FEET	1.8	2.0	4.4	7.2	8.9	8.3	9.7	4.9	1.8	1.5	1.2	1.1

Remarks:

YEAR OR PERIOD MEAN 0.07
ACRE-FEET 53.

75D74M Cib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F22-R

Daily discharge, in second-feet of MONROVIA CREEK above Sawpit Creek for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.01	0.01	0.06	0.05	0.05	0.03	0.04	0.04	0.02	0.02	0.01	0.02
2	0.01	0.01	0.06	0.05	0.05	0.03	0.04	0.04	0.02	0.02	0.01	0.02
3	0.01	0.07	0.06	0.05	0.05	0.03	0.04	0.04	0.02	0.02	0.01	0.02
4	0.01	0.03	0.05	0.05	0.05	0.03	0.04	0.04	0.02	0.02	0.01	0.01
5	0.01	0.5	0.05	0.05	0.05	0.03	0.04	0.04	0.03	0.02	0.01	0.01
6	0.01	0.2	0.05	0.05	0.05	0.03	0.04	0.04	0.03	0.02	0.01	0.01
7	0.01	0.2	0.05	0.05	0.05	0.03	0.04	0.04	0.04	0.02	0.02	0.01
8	0.01	0.03	0.05	0.05	0.05	0.03	0.03	0.03	0.04	0.02	0.02	0.01
9	0.07	0.03	0.05	0.05	0.05	0.03	0.03	0.03	0.04	0.02	0.02	0.01
10	0.2	0.02	0.05	0.05	0.05	0.03	0.03	0.03	0.04	0.02	0.02	0.01
11	0.1	0.03	0.05	0.05	0.04	0.03	0.02	0.03	0.04	0.02	0.02	0.02
12	0.07	1.0	0.05	0.05	0.04	0.03	0.02	0.03	0.04	0.02	0.02	0.02
13	0.03	a 0.5	0.05	0.05	0.04	0.03	0.02	0.03	0.04	0.02	0.02	0.02
14	0.03	0.2	0.05	0.05	0.04	0.03	0.02	0.03	0.04	0.02	0.02	0.02
15	0.03	0.2	0.05	0.05	0.04	0.1	0.02	0.02	0.04	0.02	0.02	0.02
16	0.07	a 0.2	0.05	0.05	0.04	0.03	0.02	0.02	0.04	0.02	0.02	0.02
17	0.1	0.2	0.05	0.05	0.04	0.03	0.03	0.02	0.04	0.01	0.02	0.02
18	0.07	0.2	0.05	0.05	0.04	0.03	0.03	0.02	0.04	0.01	0.02	0.02
19	0.07	0.1	0.05	0.05	0.04	0.03	0.03	0.02	0.04	0.01	0.02	0.02
20	0.03	0.07	0.05	0.05	0.03	0.04	0.03	0.02	0.04	0.01	0.02	0.02
21	0.03	0.03	0.05	0.05	0.03	0.04	0.03	0.02	0.04	0.01	0.02	0.02
22	0.03	0.03	0.05	0.05	0.03	0.04	0.03	0.02	0.04	0.01	0.02	0.02
23	0.03	0.03	0.05	0.05	0.03	0.04	0.03	0.02	0.04	0.01	0.02	0.02
24	0.03	0.03	0.05	a 0.05	0.03	0.04	0.03	0.02	0.03	0.02	0.02	0.02
25	0.03	0.03	0.05	a 0.05	0.03	0.04	0.03	0.02	0.03	0.02	0.02	0.02
26	a 0.03	0.3	0.05	e 1.2	0.03	0.04	0.03	0.02	0.03	0.02	0.02	0.02
27	0.03	0.1	0.05	e 0.2	0.03	0.04	0.03	0.02	0.02	0.02	0.02	0.02
28	0.01	0.2	0.05	0.2	0.03	0.04	0.03	0.02	0.02	0.02	0.02	0.02
29	0.01	0.1	0.05	0.2		0.04	0.03	0.02	0.02	0.02	0.02	0.02
30	0.01	0.1	0.05	0.2		0.04	0.03	0.02	0.02	0.02	0.02	0.02
31	0.01		0.05	0.1		0.04		0.02		0.01	0.02	
	1.20		1.58		1.13		0.91		0.99		0.56	
		4.75		3.35		1.12		0.83		0.54		0.53
MEAN	0.04	0.16	0.05	0.11	0.04	0.04	0.03	0.03	0.03	0.02	0.02	0.02
ACRE-FEET	2.4	9.4	3.1	6.6	2.2	2.2	1.8	1.6	2.0	1.1	1.1	1.1

Remarks:

YEAR OR PERIOD MEAN 0.05
ACRE-FEET 35.

STATION F195B-R
MONROVIA STORM DRAIN above Peck Road

LOCATION: WATER-STAGE RECORDER. LAT. 34°07'40", LONG. 118°00'13", ON THE LEFT (EAST) SIDE OF CONCRETE CHANNEL 600 FEET ABOVE PECK ROAD AND ABOUT ONE MILE SOUTH OF MONROVIA. ELEVATION OF GAGE 381.55 FEET. PREVIOUS STATION F195-R WAS ABOUT 550 FEET DOWNSTREAM FROM PRESENT LOCATION.

DRAINAGE AREA: 4.7 SQUARE MILES. (PREVIOUS TO OCTOBER 1955 DRAINAGE AREA WAS 4.5 SQUARE MILES.)

CHANNEL AND CONTROL: RECTANGULAR CONCRETE CHANNEL 17 FEET WIDE, 8 FEET DEEP. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM FOOTBRIDGE AT STATION.

RECORDER: AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: PARTIALLY CONTROLLED BY ONE DEBRIS BASIN.

DIVERSIONS: NONE.

RECORDS AVAILABLE: APRIL 25, 1932 TO DECEMBER 29, 1954 AT STATION F195-R
DECEMBER 15, 1955 TO SEPTEMBER 30, 1961 AT PRESENT LOCATION.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 402 SECOND-FEET APRIL 27.
MINIMUM PLUS FLOW MOST OF YEAR.
1960-61
MAXIMUM 651 SECOND-FEET NOVEMBER 6.
MINIMUM NO FLOW AT VARIOUS TIMES.
1932-61
MAXIMUM 1200 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gfb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F195B-R

Daily discharge, in second-feet of MONROVIA STORM DRAIN above Peck Road, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	+	17.7	a 5.0	+	+				
2					0.2	+						
3					+							
4												
5												
6												
7			+		+							
8			0.6		1.1.1							
9			+	+	+							
10				17.7	2.3							
11				9.5	+				STOPPED FOR SUMMER	STOPPED FOR SUMMER	STOPPED FOR SUMMER	
12				6.9								
13				0.1								
14				3.0								
15				5.9								+
16				+								
17												
18			+									
19												
20			3.5					+				
21			3.1				+					
22			+				0.2					
23			+				0.2	RECORDER STOPPED FOR SUMMER				
24			18.2	+			0.4					
25			3.3	5.8			+					
26			+	+		+	3.1					
27					+	2.6	4.2					
28					a 4.8	2.3	0.1					
29					a 2.4	+	+					
30		+				+	+					+
31	+		+	+		+						
	+	+	28.7	48.9	60.1	9.9	46.0	E +	E +	E +	E +	E +
MEAN	+	+	0.93	1.57	2.07	0.32	1.53	E +	E +	E +	E +	E +
ACRE-FEET	+	+	57	97	119	20	91	E +	E +	E +	E +	E +

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.53
ACRE-FEET 384.

76D74M Gfb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

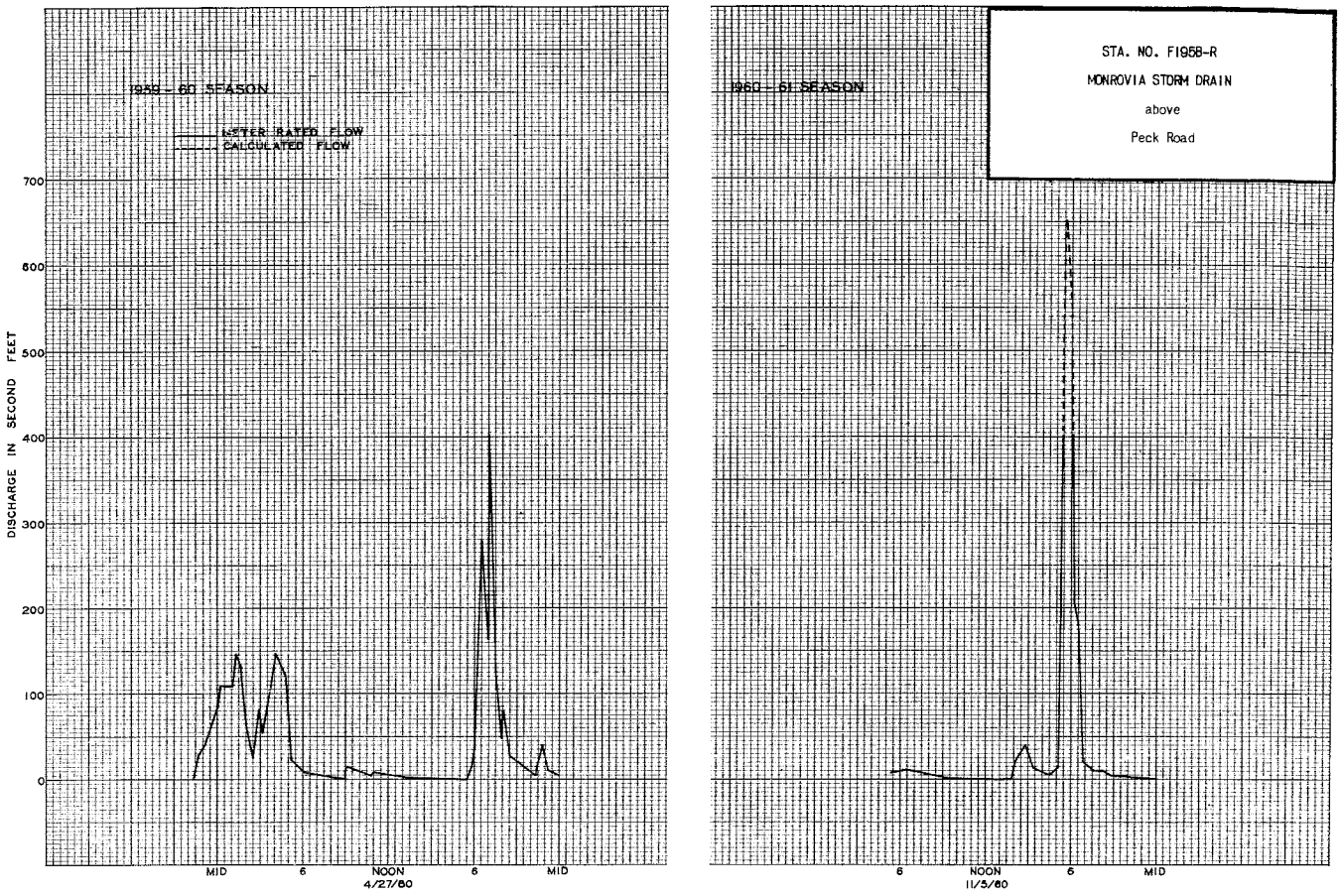
Sta. No. F195B-R

Daily discharge, in second-feet of MONROVIA STORM DRAIN above Peck Road, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0.5	+	0.1	0.1	+	+	+	+	+	+
2		+	1.4		0.2	0.1					+	
3		11.3	+		0.1	0.1					0.4	
4		0.1			+	0.2					0.2	
5		3.0				+	+				a 0.2	
6		0.7	+				0.9				a 0.2	
7		+	0				+				0.1	
8	+		0								a 0.1	
9	4.5		0								+	
10	0.4		+									
11	0.1	+			+					+		
12	+	15.6			0.2					e 0.1		
13		+	+		0.4					0.1		
14			0		0.1	+				0.1		
15			0		+	9.2				+		
16			0			+						
17			0									
18			0									
19			0							+		
20			+							0.4		
21							+			0.4		
22							2.0			0.2		
23						+	+			0.1		
24		+		+		1.3	+			+		
25				3.9		0.9	0			+		
26		10.8		3.1		+	0			+		
27		+		+		+	0			0.2		
28					+	0.4	+			0.2		
29						+	+			0.4		
30		+				+	+			0.2		
31	+		+	0.4		+	+	+	+	+	+	+
	5.0	68.5	1.9	35.3	1.1	12.3	2.9	+	+	2.4	1.2	+
MEAN	0.16	2.28	0.06	1.14	0.04	0.40	0.10	+	+	0.08	0.04	+
ACRE-FEET	9.9	136.	3.8	70.	2.2	24	5.8	+	+	4.8	2.4	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.36
ACRE-FEET 259.



STATION F161-R
MONTEBELLO STORM DRAIN above Rio Hondo

LOCATION: WATER-STAGE RECORDER, LAT. 33°59'59", LONG. 118°06'17", ON THE RIGHT (SOUTH) WALL OF THE STORM DRAIN, 150 FEET EAST OF THE EAST END OF MINES AVENUE, ELEVATION OF ZERO GAGE HEIGHT ABOUT 162.22 FEET.

DRAINAGE AREA: 9.6 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - 14 FT. X 10 FT. CONCRETE-COVERED DRAIN. THE STAGE-DISCHARGE RELATION MAY BE AFFECTED BY BACKWATER FROM THE RIO HONDO DURING FLOOD FLOWS.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING AT OUTLET; HIGH FLOWS MEASURED FROM OPENINGS IN TOP OF CHANNEL.

RECORDER: A STEVENS TYPE A-35B CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: JANUARY 12, 1932 TO AUGUST 5, 1954, DECEMBER 9, 1954 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 784 SECOND-FEET JANUARY 12.
MINIMUM 0.1 SECOND-FOOT MARCH 2.
1960-61
MAXIMUM 478 SECOND-FEET NOVEMBER 26.
MINIMUM 0.2 SECOND-FOOT AT VARIOUS TIMES.
1931-61
MAXIMUM 1400 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F118B-R

Daily discharge, in second-feet of PACOIMA CREEK FLUME below Pacoima Dam, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.6	+	0	+	+	+	+	+	+	+	1.8	e 0.5
2	3.6		0								3.7	0.4
3	3.6		0								3.0	0.4
4	3.6		0								3.0	0.3
5	3.5		0								3.0	0.3
6	3.5		0								3.0	0.2
7	3.5		0								3.0	0.2
8	3.4	+	0								3.0	0.2
9	3.3	0	0								3.0	0.2
10	3.1	0	0								3.0	0.2
11	3.0	0	0								3.0	0.2
12	3.0	0	0								3.0	0.2
13	3.0	0	0								3.0	0.2
14	3.0	0	0								3.0	e 0.2
15	3.0	0	0			+					3.0	0.2
16	1.0	0	0			0					3.0	e 0.2
17	+	0	0			0					3.0	0.2
18		0	0			0					2.9	0.2
19		0	0			0					2.9	0.2
20		0	0			0					2.9	0.2
21		0	0			0					2.8	0.2
22		0	0			0					2.8	0.2
23		0	0			0					2.8	0.2
24		0	0			0					2.7	0.1
25		0	0			0					2.3	0.1
26		0	0			0					e 2.6	0.1
27		0	+			0					1.0	0.1
28		0				0					0.6	e 0.1
29		0			+	0					0.6	0.1
30		0				0	+		+		0.6	0.1
31	+		+	+		0		+		+	e 0.6	
	50.7		+	+	+	+	+	+	+	+	78.6	6.2
MEAN	1.64	+	+	+	+	+	+	+	+	+	2.54	0.21
ACRE-FEET	101.	+	+	+	+	+	+	+	+	+	156.	12.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.37
ACRE-FEET 269.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F118B-R

Daily discharge, in second-feet of PACOIMA CREEK FLUME below Pacoima Dam, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	+	+	+	+	+	+	+	+	+	+	+
2	0.1											
3	0.1											
4	0.1											
5	0.1											
6	0.1											
7	0.1											
8	0.1											
9	0.1											
10	0.1											
11	0.1											
12	0.1											
13	0.1											
14	0.1											
15	0.1											
16	0.1											
17	0.1											
18	0.1											
19	0.1											
20	0.1											
21	0.1											
22	0.1											
23	0.1											
24	0.1											
25	0.1											
26	0.1											
27	0.1											
28	0.1				+							
29	b 0.1											
30	b 0.1	+					+		+			+
31	b 0.1		+	+		+		+		+	+	
	3.1		+	+	+	+	+	+	+	+	+	+
MEAN	0.10	+	+	+	+	+	+	+	+	+	+	+
ACRE-FEET	6.1	+	+	+	+	+	+	+	+	+	+	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN .01
ACRE-FEET 6.1

STATION F305-R
PACOIMA DIVERSION at Branford Street

LOCATION: WATER-STAGE RECORDER, LAT. 34°14'04", LONG. 118°25'14", ON THE LEFT (NORTHEASTERLY) BANK OF THE CHANNEL, 35 FEET ABOVE BRANFORD STREET BRIDGE, ELEVATION OF ZERO GAGE HEIGHT 844 FEET.

DRAINAGE AREA: 48.8 SQUARE MILES.

CHANNEL AND CONTROL: TRAPEZOIDAL CONCRETE, WITH GROUTED ROCK WALLS, CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF BRANFORD STREET BRIDGE.

RECORDER: A STEVENS TYPE A-35 WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 1961.

REGULATION: FLOW REGULATED BY PACOIMA DAM AND LOPEZ BASIN.

DIVERSIONS: SMALL DIVERSIONS FOR IRRIGATION NEAR MOUTH OF CANYON. WATER DIVERTED TO LOPEZ AND PACOIMA SPREADING GROUNDS DURING SPREADING OPERATIONS.

RECORDS AVAILABLE: OCTOBER 30, 1953 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 666 SECOND-FEET JANUARY 11.
MINIMUM NO FLOW PART OF YEAR.
1960-61
MAXIMUM 988 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW PART OF YEAR.
1953-61
MAXIMUM 2800 SECOND-FEET JANUARY 6, 1959.
MINIMUM NO FLOW VARIOUS TIMES.

ACCURACY: GOOD

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY. OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

TEXTRON Cat. 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F305-R

Daily discharge, in second-feet of PACOIMA DIVERSION at Branford Street, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.5	+	+	0	29	2.1	0	+				+
2	+	0	+	0	1.6	0	+	+				0.3
3		0	0	0	0.4	0		0				0.3
4		0	0	0	0.2	0		0				0.4
5		0	0	0	0	0.4		+				0.4
6		0	+	0	0	+	+					0.4
7		+	0	0	0.2	0	0.4					0.3
8		0	0.5	0	15.4	0	0.4	+				0.4
9	+	0	0	0.2	0.3	+	0.2	0				0.4
10	0.4	0	1.5	4.6	4.2		0.3	+				0.4
11	+	0	+	2.3	0		0.3	+				0.3
12		+	+	8.5	0		0.3	+				0.3
13		0	0	+	0		+	+				0.4
14	+	0	0	12.3	0		0	0.3				0.3
15	0	0	0	9.6	0		+	+				+
16	0	0	0	+	0		0.4	+				+
17	0	+	0	0	+		0.2	+				+
18	+	0	0	0	0		0.2					0.3
19	+	0	+	0.7	0		0.3					0.2
20	+	0	+	0.8	0		0.2					0.4
21	0	0	6.3	0.5	0.1		0.4					+
22	+	0	0	0.6	0	+	0.2					
23	+	0	0	+	0	0	0					
24	0	0.2	4.3	+	0	+	+				1.0	
25	0	0	2.2	2.5	+	+	+				1.0	
26	0	0	0	0.3	0.1	0.4	6.1				1.0	
27	0	0	0	0	0	11.8	30				1.0	
28	0	0	0	0	10.1	14.7	1.6				0.2	+
29	+	+	0	0	2.2	0	0.3				+	0.4
30	0	+	0	+		0	0.2				+	0
31	0		0	0		0					0.2	
	0.9	0.2	53.5	127.5	83.6	29.4	42.0	0.3	E +	E +	4.4	5.9
MEAN	0.03	+	1.72	4.11	2.88	0.95	1.40	0.01	E +	E +	0.14	0.20
ACRE-FEET	1.8	0.4	106	253	166	58	83	0.6	E +	E +	8.7	12

RECORDER STOPPED FOR SUMMER

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.95
ACRE-FEET 690.

76D74M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

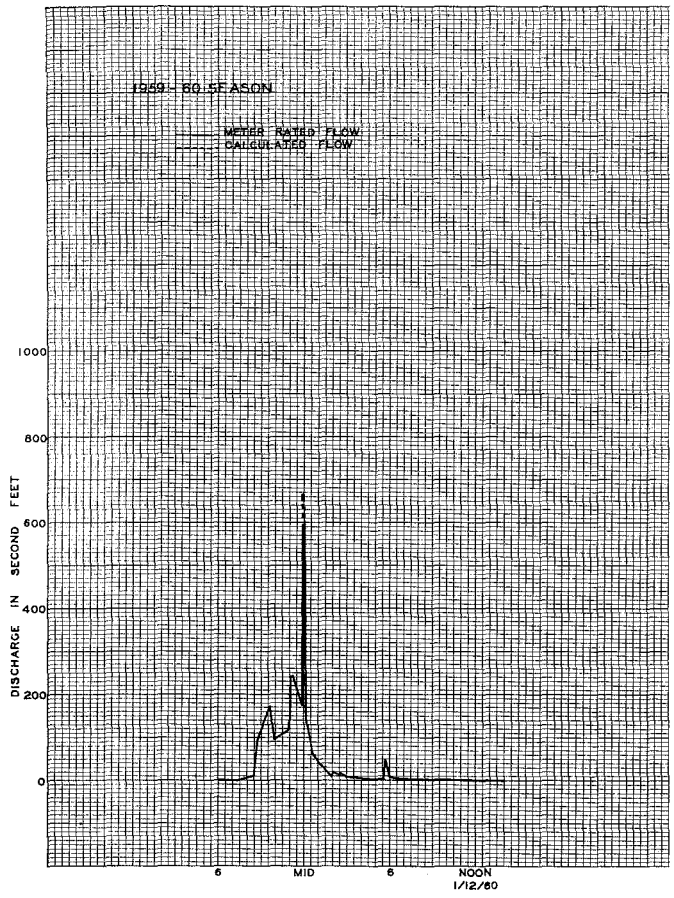
Sta. No. F305-R

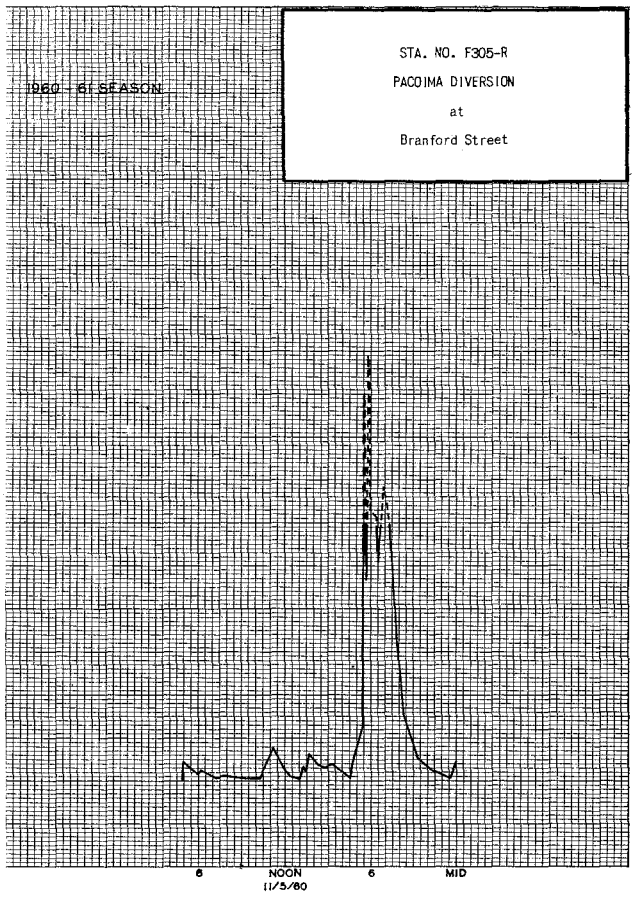
Daily discharge, in second-feet of PACOIMA DIVERSION at Branford Street, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0.9	0	0.1	0.3	0.2	0.7	0.6	+	0.4	b 0
2		0	6.9	+	0.1	0.2	+	0.7	0.2		0.1	0
3		2.9	0	0	0	+	0.1	0.7	+		+	0
4	+	0.1	0	0	0.2	+	0.2	0.5	0.2		0.1	0
5	0.1	8.6	+	+	0.4	0.2	0.9	0.4	0.3	+	0.3	0
6	+	4.6	0	0.1	+	+	4.4	0.8	0.3	0.1	+	0
7	0.1	0	0	+		0.1	1.0	0.8	0.1	+	+	0
8	+	0.2	0	0.9	+	+	0.2	0.5	+		0.1	0
9	+	0	0.2	0.2	+	+	0.6	0.5		0.2	0.8	0
10	0	0	+	+	0.2	+	0.7	0.5		+	0.4	0
11	+	0		0.1	+	0.1	0.5	0.5		+	2.3	0
12		3.1		+	0.3	1.0	0.7	0.5		0.1	b +	0
13		0.5		0.2	+	0.4	1.0	0.7		0.2		0
14	+	0	+	0.3	+	0.3	1.0	0.5	+	0.3		0
15	0.2	0	0	+	3.6	16.0	1.0	0.9	0.1	0.2		0
16	+	0	0	0.3	8.7	0.3	0.9	0.8	+	0.4		0
17	1.5	0	0	0.2	1.6	0.2	0.5	1.1	0	0.4		0
18	0.3	+	+	0.8	+	0.1	0.9	0.7	0	1.4		0
19	0.6	0	+	0.1	+	0.2	1.1	0.5	0	0.6		0
20	+	+	0	+	0.2	+	1.7	1.2	0	0.7		0
21		+	+		0.4	0.1	0.9	1.1	0	0.7	+	0
22		+	+		0.9	+	6.3	0.7	0	0.7	0	0
23		0.2	+		0.2	+	0.5	0.5	0.2	0.9	0	0
24		0	0	+	0.2	0.2	0.2	0.6	0	1.2	0	0
25		0	+	9.6	+	0.7	0.2	0.5	+	1.3	0	0
26		3.4	+	8.0	+	+	0.4	0.4	0	0.9	0	+
27		0.1	0.1	0.3	0.2	0	0.5	0.1	+	0.8	0	
28		0	+	0	0.3	+	0.5	0.2	+	0.8	0	
29		0	0	0.6		+	0.3	0.7	0	0.4	0	
30		0	+	0.5		0.1	0.3	0.7	0	0.3	0	b +
31	+		0.1	0.2		0.5		0.6		0.3	b 0	
	2.8		8.2		17.6		27.7		2.0		25.2	
		227.1		94.4		21.0		19.9		12.9		+
MEAN	0.09	7.57	0.26	3.04	0.63	0.68	0.92	0.64	.07	.42	0.81	+
ACRE-FEET	5.6	450.	16.	187.	35.	42.	55.	39.	4.0	26.	50.	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 1.26
ACRE-FEET 910.





STATION F15-R
PACOIMA WASH at Van Nuys Boulevard

LOCATION: WATER-STAGE RECORDER. LAT. 34°12'24", LONG. 118°26'55". ON THE RIGHT (SOUTH) BANK OF THE CHANNEL, 60 FEET ABOVE VAN NUYS BOULEVARD BRIDGE, AND AT UPSTREAM END OF TRANSITION TO CONCRETE-LINED CHANNEL. ELEVATION OF ZERO GAGE HEIGHT 754.12 FEET.

DRAINAGE AREA: INDETERMINATE, SUBJECT TO OPERATIONS AT PROJECT 85.

CHANNEL AND CONTROL: SAND BOTTOM WITH PIPE AND WIRE SIDES 30 FEET WIDE AND 10 FEET DEEP. WEIR IN TRANSITION TO CONCRETE-LINED CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOW MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOTBRIDGE ON UPSTREAM SIDE OF VAN NUYS BOULEVARD BRIDGE.

RECORDER: AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY PACOIMA SPREADING GROUNDS AND PROJECT 85 DIVERSION STRUCTURE.

DIVERSIONS: FLOW FROM PACOIMA WASH CAN BE DIVERTED TO PROJECT 85 AT RAYMER STREET.

RECORDS AVAILABLE: OCTOBER 14, 1952 TO SEPTEMBER 30, 1961. RECORDS FOR STATION F16-R, PACOIMA WASH AT PARTHENIA STREET, AVAILABLE FROM DECEMBER 26, 1928 TO SEPTEMBER 9, 1952.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 33. SECOND-FEET JANUARY 11.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM 319 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW MOST OF YEAR.
1952-61
MAXIMUM 786 SECOND-FEET NOVEMBER 15, 1952. (PRIOR TO PACOIMA DIVERSION, 1953-54).
MAXIMUM 576 SECOND-FEET JANUARY 6, 1959, AFTER COMPLETION OF PACOIMA DIVERSION.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: GOOD.

REMARKS: PACOIMA WASH DIVERSION CHANNEL DIVERTS ALL OF PACOIMA WASH FLOW ABOVE SHARP STREET, EXCEPT THAT WHICH IS SPREAD IN PACOIMA SPREADING GROUNDS, TO TUJUNGA WASH. DIVERSION WAS COMPLETED PRIOR TO OCTOBER 1953. PROJECT 85 DIVERTS STORM FLOWS TO CAPACITY OF THE DOWNSTREAM CHANNEL TO TUJUNGA WASH. DIVERSION WAS COMPLETED PRIOR TO APRIL 1960.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

78D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F15-R

Daily discharge, in second-feet of PACOIMA WASH at Van Nuys Boulevard, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	3.4	+	0	0				
2	0	0	0	0	0	0	0	0				
3	0	0	0	0	0	0	0	0				
4	0	0	0	0	0	0	0	0				
5	0	0	0	0	0	0	0	0				RECORDER STOPPED FOR SUMMER
6	0	0	0	0	0	0	0	0				
7	0	0	0	0	0	0	0	0				
8	0	0	0	0	0.4	0	0	0				
9	0	0	0	0	0	0	0	0				
10	0	0	0	1.2	0	0	0	0				
11	0	0	0	1.8	0	0	0	0				
12	0	0	0	0.9	0	0	0	0				
13	0	0	0	0	0	0	0	0				
14	0	0	0	0.2	0	0	0	0				0
15	0	0	0	+	0	0	0	0				0
16	0	0	0	0	0	0	0	0				0
17	0	0	0	0	0	0	0	0				0
18	0	0	0	0	0	0	0	0				0
19	0	0	0	0	0	0	0					0
20	0	0	0	0	0	0	0					0
21	0	0	0	0	0	0	0					0
22	0	0	0	0	0	0	0					0
23	0	0	0	0	0	0	0					0
24	0	0	1.3	0	0	0	0					0
25	0	0	0	0	0	0	0					0
26	0	0	0	0	0	0	0					0
27	0	0	0	0	0	0	4.2					0
28	0	0	0	0	0	0	+					0
29	0	0	0	0	0.3	0	0					0
30	0	0	0	0		0	0					0
31	0		0	0		0						
	0		1.3	4.1			4.2		E 0		E 0	
		0		4.1		+		E 0		E 0		E 0
MEAN	0	0	0.04	0.13	0.14	+	0.14	E 0	E 0	E 0	E 0	E 0
ACRE-FEET	0	0	2.6	8.1	8.1	+	8.4	E 0	E 0	E 0	E 0	E 0

RECORDER STOPPED FOR SUMMER (May)
RECORDER STOPPED FOR SUMMER (June)
RECORDER STOPPED FOR SUMMER (July)
RECORDER STOPPED FOR SUMMER (Aug.)

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.04
ACRE-FEET 27.

76D74M Glb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

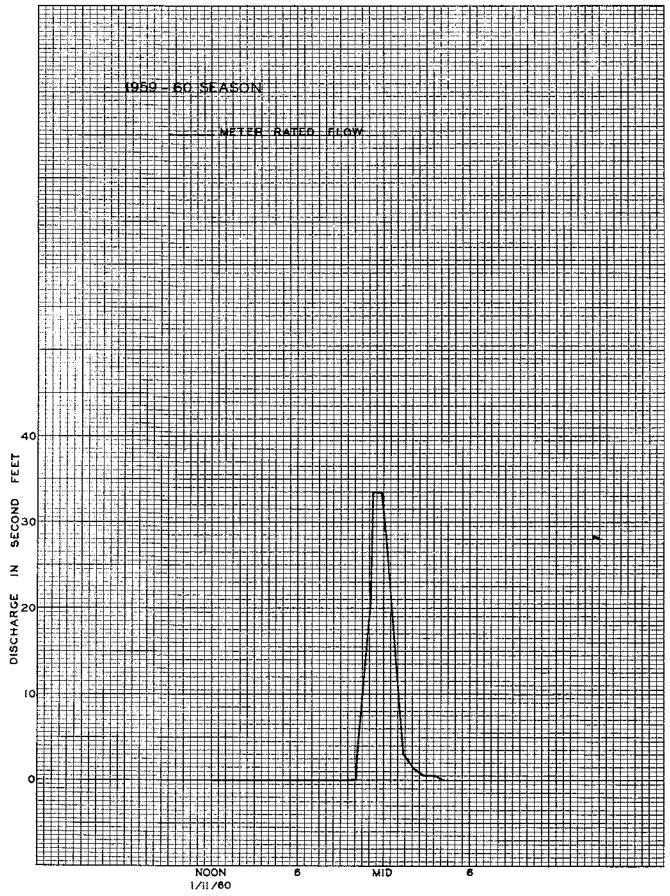
Sta. No. 15-R

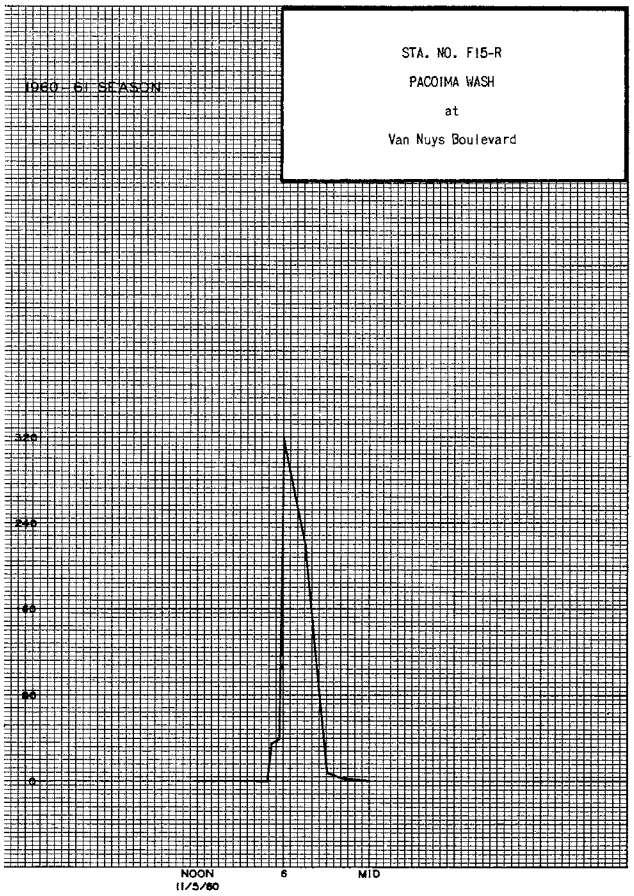
Daily discharge, in second-feet of PACOIMA WASH at Van Nuys Boulevard, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER
2	0	0	0	0	0	0	0	0				
3	0	0	0	0	0	0	0	0				
4	0	0	0	0	0	0	0	0				
5	0	2.7	0	0	0	0	0	0				
6	0	1.3	0	0	0	0	0	0				
7	0	0	0	0	0	0	0	0				
8	0	0	0	0	0	0	0	0				
9	0	0	0	0	0	0	0	0				
10	0	0	0	0	0	0	0	0				
11	0	0	0	0	0	0	0	0				
12	0	0.3	0	0	0	0	0	0				
13	0	0	0	0	0	0	0	0				
14	0	0	0	0	0	0	0	0				
15	0	0	0	0	0	+	0	0				
16	0	0	0	0	0	0	0	0				
17	0	0	0	0	0	0	0	0				
18	0	0	0	0	0	0	0					
19	0	0	0	0	0	0	0					
20	0	0	0	0	0	0	0					
21	0	0	0	0	0	0	0	RECORDER STOPPED FOR SUMMER 5/17/61				
22	0	0	0	0	0	0	0					
23	0	0	0	0	0	0	0					
24	0	0	0	0	0	0	0					
25	0	0	0	0	0	0	0					
26	0	1.6	0	3.5	0	0	0					
27	0	0	0	0	0	0	0					
28	0	0	0	0	0	0	0					
29	0	0	0	0		0	0					
30	0	0	0	0		0	0					
31	0		0	0		0						
	0		0		0		0		E 0		E 0	
		30.2		3.5		+		E 0		E 0		E 0
MEAN	0	1.01	0	0.11	0	+	0	E 0	E 0	E 0	E 0	E 0
ACRE-FEET	0	60.	0	6.9	0	+	0	E 0	E 0	E 0	E 0	E 0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.09
ACRE-FEET 66.9





STATION F135-R
PLACERITA CREEK at Saugus-Ventura Road
(formerly Ridge Route Highway)

LOCATION: WATER-STAGE RECORDER, LAT. 34°24'52", LONG. 118°32'34", ON THE RIGHT (EAST) BANK AND ON THE UPSTREAM SIDE OF SAUGUS-VENTURA ROAD BRIDGE, ABOUT 700 FEET WEST OF HIGHWAY 6. ELEVATION OF ZERO GAGE HEIGHT APPROXIMATELY 1150 FEET.

DRAINAGE AREA: 40.9 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL, SAND AND GRAVEL. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOW MEASURED BY CABLE CAR, 200± FEET UPSTREAM FROM STATION.

RECORDER: A STEVENS A-35 RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE. FLOWS OCCASIONALLY ORIGINATE FROM LOS ANGELES AQUEDUCT BLOWOFF.

DIVERSIONS: NONE.

RECORDS AVAILABLE: SEPTEMBER 9, 1947 TO SEPTEMBER 30, 1961. FOR PREVIOUS MEASUREMENTS AND RECORDS SEE STAFF GAGE STATION F135-S, NEWHALL CREEK.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 120 SECOND-FEET JANUARY 11.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM 196 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW MOST OF YEAR.
1947-61
MAXIMUM 6800 SECOND-FEET JANUARY 15, 1952.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

75D74M GB 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F135-R

Daily discharge, in second-feet of PLACERITA CREEK at Ridge Route Highway, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	13	0	0	RECORDER SHUT DOWN IRRIGATION WASTE UNDETERMINED	IRRIGATION WASTE UNDETERMINED	IRRIGATION WASTE UNDETERMINED	IRRIGATION WASTE UNDETERMINED	IRRIGATION WASTE UNDETERMINED
2	0	0	0	0	4.4	0	0					
3	0	0	0	0	0	0	0					
4	0	0	0	0	0	0	0					
5	0	0	0	0	0	0	0					
6	0	0	0	0	0	0	0					
7	0	0	0	0	0	0	0					
8	0	0	0	0	3.4	0	0					
9	0	0	0	0	0.6	0	0					
10	0	0	0	4.9	0	0	0					
11	0	0	0	4.9	0	0	0					
12	0	0	0	11	0	0	0					
13	0	0	0	0	0	0	0					
14	0	0	0	+	0	0	0					
15	0	0	0	0	0	0	0					
16	0	0	0	+	0	0	0					
17	0	0	0	0	0	0	0					
18	0	0	0	0	0	0	0					
19	0	0	0	0	0	0	0					
20	0	0	0	0.3	0	0	0					
21	0	0	0	0.1	0	0	0					
22	0	0	0	0	0	0	0					
23	0	0	0	0	0	0	0					
24	0	0	0.1	+	0	0	0					
25	0	0	0	0.3	0	0	0					
26	0	0	0	+	0	0	+					
27	0	0	0	0	0	0	12					
28	0	0	0	0	+	0	0.1					
29	0	0	0	0	+	0	0					
30	0	0	0	0		0	0					
31	0		0	0		0						
	0	0	0.1	21.5	21.4	0	12.1	E +	E +	E +	E +	E +
MEAN	0	0	+	0.64	0.69	0	0.40	E +	E +	E +	E +	E +
ACRE-FEET	0	0	0.2	43	42	0	24	E +	E +	E +	E +	E +

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.15
ACRE-FEET 109.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F135-R

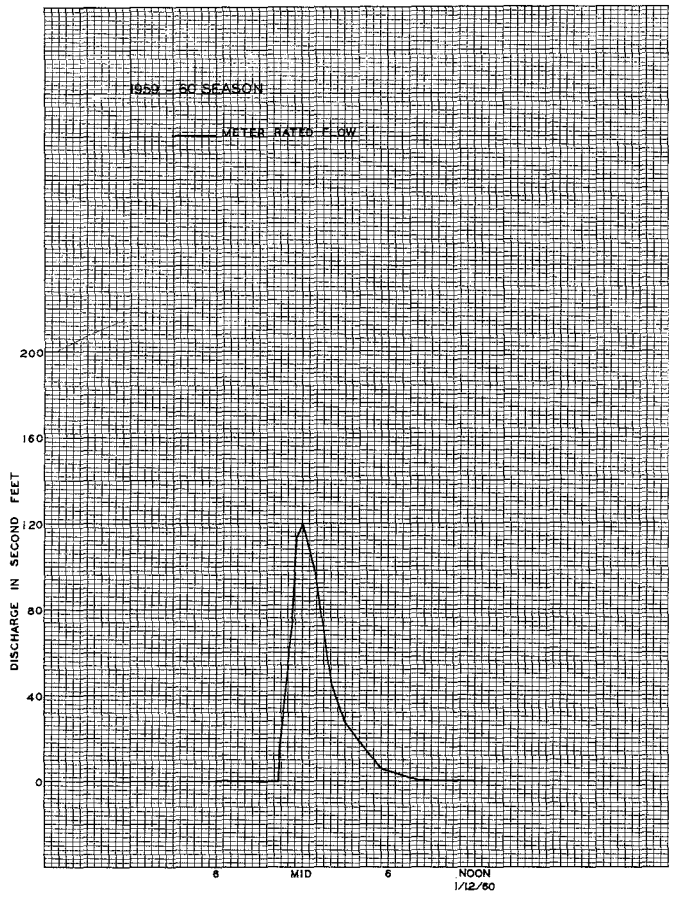
Daily discharge, in second-feet of PLACERITA CREEK at Saugus-Ventura Road (formerly Ridge Route Highway), for the year ending September 30, 1961

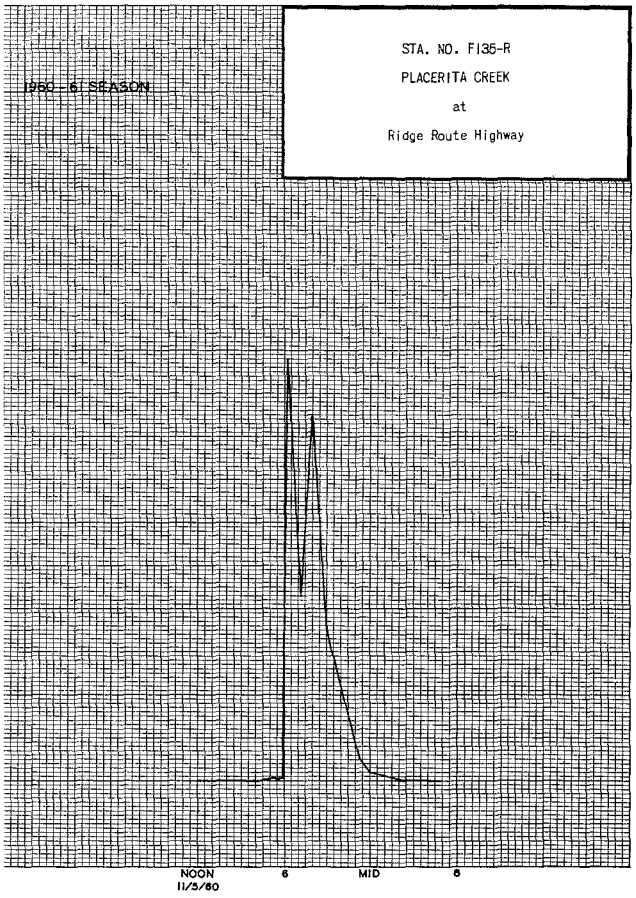
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0				
2	0	0	0	0	0	0	0	0				
3	0	+	0	0	0	0	0	0				
4	0	0	0	0	0	0	0	0				
5	0	21	0	0	0	0	0	0				
6	0	6.6	0	0	0	0	0	0				
7	0	0	0	0	0	0	0	0				
8	0	0	0	0	0	0	0	0				
9	0	0	0	0	0	0	0	0				
10	0	0	0	0	0	0	0	0				
11	0	0	0	0	0	0	0	0				
12	0	13	0	0	0	0	0	0				
13	0	+	0	0	0	0	0	0				
14	0	0	0	0	0	0	0	0				
15	0	0	0	0	0	0	0	0				
16	0	0	0	0	0	0	0	0				
17	0	0	0	0	0	0	0	0				
18	0	0	0	0	0	0	0	0				
19	0	0	0	0	0	0	0	0				
20	0	0	0	0	0	0	0	0				
21	0	0	0	0	0	0	0	0				
22	0	0	0	0	0	0	0	0				
23	0	0	0	0	0	0	0	0				
24	0	0	0	0	0	0	0	0				
25	0	0	0	0	0	0	0	0				
26	0	5.4	0	2.0	0	0	0	0				
27	0	0	0	+	+	0	0	0				
28	0	0	0	0		0	0	0				
29	0	0	0	0		0	0	0				
30	0	0	0	0		0	0	0				
31	0		0	0		0						
	0		0				0		E O		E O	
		46.0		2.0		0		E O		E O		E O
MEAN	0	1.5	0	.65	+	0	0	E O	E O	E O	E O	E O
ACRE-FEET	0	92.	0	40.	+	0	0	E O	E O	E O	E O	E O

RECORDER STOPPED FOR SUMMER

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN .18
ACRE-FEET 132.





STATION F307-R
PUDDINGSTONE DIVERSION CHANNEL
SAN DIMAS WATER COMPANY OUTLET
at Juanita Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°06'36", LONG. 117°47'25", IN A WEIR BOX ON A TWENTY-FOUR INCH PIPE LINE DISCHARGING ON THE LEFT (EAST) BANK OF PUDDINGSTONE DIVERSION CHANNEL 30 FEET BELOW JUANITA AVENUE. ELEVATION OF GAGE ABOUT 1045 FEET.

DRAINAGE AREA: NONE.

RECORDER: A STEVENS TYPE L RECORDER WAS IN SERVICE DURING PERIODS OF OPERATION.

REGULATION: REGULATED BY SAN DIMAS WATER COMPANY AT THE REQUEST OF THE LOS ANGELES COUNTY PARKS AND RECREATION DEPARTMENT. THIS IS FOREIGN WATER FURNISHED BY THE METROPOLITAN WATER DISTRICT.

RECORDS AVAILABLE: JUNE 16, 1953 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
NO FLOW ENTIRE YEAR.
1960-61
NO FLOW ENTIRE YEAR.

ACCURACY: EXCELLENT.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH SAN DIMAS WATER COMPANY.

STATION F40-R
PUDDINGSTONE CREEK below Puddingstone Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°05'35", 117°48'38", ON THE RIGHT (EAST) BANK ABOUT 1000 FEET BELOW PUDDINGSTONE DAM NEAR SAN DIMAS. ELEVATION OF ZERO GAGE HEIGHT 824.80 FEET.

DRAINAGE AREA: 32.3 SQUARE MILES, INCLUDING AREAS CONTROLLED BY SEVERAL DAMS IN THE MOUNTAIN TRIBUTARIES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND PUDDINGSTONE.
CONTROL - REINFORCED CONCRETE CIPOLLETTI WEIR WITH A 25-FOOT CREST AND 3-FOOT DEPTH, AND A CIPOLLETTI WEIR NOTCH IN CENTER WITH A 24-INCH CREST AND 18-INCH DEPTH.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM CABLE CAR AT STATION.

RECORDER: AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO NOVEMBER 28, 1960. A STEVENS A-35 CONTINUOUS RECORDER WAS IN SERVICE FROM NOVEMBER 28, 1960 TO SEPTEMBER 30, 1961.

REGULATION: FLOW REGULATED BY PUDDINGSTONE DAM.

DIVERSIONS AND/OR REGULATIONS: SAN DIMAS CREEK, WHICH IS REGULATED BY SAN DIMAS DAM AND PUDDINGSTONE DIVERSION DAM, CAN BE DIVERTED TO PUDDINGSTONE RESERVOIR AT PUDDINGSTONE DIVERSION DAM. METROPOLITAN WATER DISTRICT AQUEDUCT OCCASIONALLY SPILLS FLOW INTO PUDDINGSTONE DIVERSION CHANNEL AND RELEASES ZONE 1 WATER INTO LIVE OAK WASH BELOW SEVENTH STREET, LA VERNE WHICH IS MEASURED BY STATION F311-R SAN DIMAS WATER COMPANY DIVERTS OUTFLOW FROM DAM ABOVE THE STATION AND ALSO RELEASES WATER TO PUDDINGSTONE DIVERSION CHANNEL AT JUANITA STREET STATION F307-R. FOR PURCHASE BY LOS ANGELES COUNTY PARKS AND RECREATION DEPARTMENT.

RECORDS AVAILABLE: DECEMBER 28, 1927 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 3.4 SECOND-FEET JANUARY 12.
MINIMUM PLUS FLOW MOST OF YEAR.
1960-61
MAXIMUM 294 SECOND-FEET NOVEMBER 16.
MINIMUM PLUS FLOW VARIOUS TIMES OF YEAR.
1929-61
MAXIMUM 414 SECOND-FEET APRIL 26, 1957.
MINIMUM NO FLOW AUGUST 1951.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD

76D74M Gib 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F40-R

Daily discharge, in second-feet of PUDDINGSTONE CREEK below Puddingstone Dam, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.05	0.05	0.06	0.05	0.3	0.06	0.06	0.05	0.04	0.04	0.04	0.04
2	0.05	0.05	0.05	0.05	0.2	0.06	0.06	0.05	0.04	0.04	0.04	0.04
3	0.05	0.05	0.05	0.09	0.07	0.06	0.06	0.06	0.04	0.04	0.04	0.04
4	0.05	0.05	0.05	0.05	0.07	0.06	0.06	0.06	0.04	0.04	0.04	0.04
5	0.05	0.05	0.05	0.05	0.07	0.07	0.06	0.06	0.04	0.04	0.04	0.04
6	0.04	0.05	0.05	0.05	0.07	0.07	0.06	0.06	0.04	0.04	0.04	0.04
7	0.04	0.05	0.04	0.05	0.07	0.08	0.06	0.05	0.04	0.04	0.04	0.04
8	0.04	0.05	0.04	0.05	e 0.2	0.08	0.06	0.05	0.04	0.04	0.03	0.04
9	0.04	0.05	0.04	0.05	e 0.2	0.09	0.05	0.05	0.04	0.04	0.03	0.04
10	0.04	0.04	0.04	0.4	e 0.2	0.09	0.05	0.04	0.04	0.04	0.02	0.04
11	0.05	0.04	0.05	0.3	0.08	0.09	0.04	0.04	0.04	0.04	0.02	0.03
12	0.05	0.04	0.05	0.5	0.08	0.08	0.04	0.04	0.04	0.04	0.02	0.03
13	0.05	0.04	0.06	0.08	0.08	0.08	0.03	0.04	0.04	0.04	0.03	0.03
14	0.06	0.04	0.07	0.08	0.08	0.08	0.03	0.04	0.04	0.04	0.03	0.03
15	0.06	0.05	0.07	0.08	0.08	0.07	0.03	0.05	0.04	0.04	0.04	0.03
16	0.06	0.05	0.08	0.07	0.08	0.07	0.03	0.05	0.04	0.04	0.04	0.03
17	0.06	0.06	0.09	0.07	0.08	0.07	0.04	0.06	0.04	0.04	0.04	0.03
18	0.05	0.07	0.08	0.07	0.08	0.07	0.04	0.06	0.04	0.04	0.04	0.03
19	0.05	0.07	0.07	0.06	0.08	0.07	0.05	0.06	0.04	0.04	0.04	0.03
20	0.05	0.07	0.07	0.06	0.08	0.07	0.05	0.06	0.04	0.04	0.04	0.04
21	0.05	0.07	0.06	0.06	0.08	0.07	0.05	0.06	0.05	0.04	0.04	0.04
22	0.05	0.07	0.06	0.06	0.07	0.07	0.05	0.06	0.05	0.04	0.04	0.04
23	0.05	0.08	0.06	0.06	0.07	0.07	0.05	0.06	0.05	0.04	0.04	0.04
24	0.05	0.08	0.06	0.06	0.07	0.07	0.04	0.06	0.04	0.04	0.04	0.04
25	0.05	0.08	0.06	0.06	0.07	0.07	0.04	0.06	0.04	0.04	0.04	0.04
26	0.05	0.08	0.05	0.07	0.07	0.07	0.04	0.06	0.04	0.04	0.04	0.04
27	0.05	0.08	0.05	0.07	0.07	0.07	0.04	0.06	0.04	0.04	0.04	0.04
28	0.05	0.08	0.05	0.07	0.07	0.07	0.04	0.06	0.04	0.04	0.04	0.04
29	0.05	0.07	0.05	0.07	0.07	0.07	0.04	0.05	0.04	0.04	0.04	0.04
30	0.05	0.07	0.05	0.07		0.07	0.05	0.05	0.04	0.04	0.04	0.04
31	0.05		0.05	0.07		0.07		0.04		0.04	0.04	
	1.54		1.76		2.89		1.40		1.23		1.14	
		1.78		2.94		2.24		1.65		1.24		1.11
MEAN	0.05	0.06	0.06	0.10	0.10	0.07	0.05	0.05	0.04	0.04	0.04	0.04
ACRE-FEET	3.0	3.5	3.5	5.9	5.7	4.4	2.8	3.3	2.4	2.5	2.3	2.2

Remarks:

YEAR OR PERIOD MEAN 0.06
ACRE-FEET 42.

76D74M Gib 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F40-R

Daily discharge, in second-feet of PUDDINGSTONE CREEK below Puddingstone Dam, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.05	0.04	0.1	0.1	0.3	a 0.03	0.4	a 0.2	0.2	a 0.2	0.1	0.1
2	0.05	0.04	25	0.1	0.1	0.03	0.3	0.2	0.2	0.2	0.1	0.1
3	0.05	0.04	168	0.1	0.1	0.03	0.1	0.2	0.2	0.2	0.1	0.1
4	0.05	0.04	241	0.1	0.3	0.03	0.05	a 0.2	0.2	0.2	0.1	0.1
5	0.05	0.04	239	0.1	0.05	0.03	0.05	0.2	0.2	0.2	0.1	0.1
6	0.05	0.04	254	0.1	0.1	0.03	a 0.05	0.2	0.2	0.2	0.1	0.1
7	0.05	0.05	258	0.1	0.3	0.03	0.05	0.2	0.2	0.2	0.1	0.1
8	0.05	0.05	255	0.1	0.1	0.03	0.06	0.2	0.1	0.2	0.1	0.1
9	0.1	0.05	251	0.1	0.1	0.03	0.06	0.2	0.1	0.2	0.2	0.1
10	0.1	0.05	246	0.1	0.1	0.03	0.07	0.1	0.1	0.2	0.2	0.1
11	0.1	79	241	0.1	0.05	0.03	0.08	0.1	0.1	0.2	0.2	0.1
12	0.1	90	230	0.1	0.05	0.03	0.08	0.1	0.1	0.2	0.1	0.1
13	0.1	47	225	0.1	a 0.05	0.03	0.09	0.2	0.1	0.2	0.2	0.1
14	0.1	127	221	0.1	0.04	0.02	0.09	0.2	0.1	0.2	0.1	0.1
15	0.1	203	50	0.1	0.04	0.02	0.09	0.2	a 0.2	0.2	0.1	0.1
16	0.1	268	0.3	0.1	0.04	0.02	0.1	0.2	0.2	0.2	0.1	0.1
17	0.1	291	0.1	0.1	0.04	0.03	0.1	0.2	0.2	0.2	0.1	0.1
18	0.1	290	0.1	0.1	0.04	0.04	0.2	a 0.1	0.2	0.2	0.1	0.1
19	0.05	287	0.1	0.1	0.04	0.05	0.2	0.1	0.2	0.2	0.1	0.1
20	0.05	140	0.1	0.1	0.04	0.06	0.2	0.2	0.2	0.2	0.1	0.1
21	0.05	0.3	0.1	0.05	0.05	0.07	0.2	0.2	0.2	0.2	0.1	0.1
22	0.05	0.1	0.1	0.05	0.05	a 0.08	0.2	0.2	0.2	0.2	0.1	0.2
23	0.05	0.05	0.3	0.05	0.05	0.1	0.1	0.2	0.2	0.2	0.1	0.2
24	0.05	0.3	0.3	0.05	0.05	0.1	0.1	0.2	0.2	0.2	0.2	0.2
25	0.03	0.3	0.1	0.1	0.05	0.1	0.1	0.2	0.2	0.2	0.2	0.2
26	0.03	0.3	0.1	0.1	0.04	0.1	0.1	0.2	0.2	a 0.2	0.1	0.1
27	0.03	0.1	0.05	0.05	0.04	0.1	0.1	0.2	0.2	0.1	0.1	0.1
28	0.03	0.1	0.05	0.1	a 0.03	0.3	0.1	0.2	0.2	0.1	0.1	0.1
29	0.03	0.1	0.05	0.1		0.1	0.1	0.2	0.2	0.1	0.1	0.1
30	0.03	0.1	0.05	0.1		0.3	a 0.1	0.2	0.2	0.1	0.1	0.1
31	0.03		0.1	0.3		0.3		a 0.2	a 0.2	0.1	0.1	
	1.91		2906.10		2.34		3.62		5.3		3.7	
		1824.19		3.05		2.28		5.7		5.7		3.4
MEAN	0.06	60.8	93.7	0.10	0.08	0.07	0.12	0.18	0.18	0.18	0.12	0.11
ACRE-FEET	3.8	3620.	5760.	6.0	4.6	4.5	7.2	11.3	10.5	11.3	7.5	6.7

Remarks:

YEAR OR PERIOD MEAN 13.1
ACRE-FEET 9450.

STATION F192B-R
RIO HONDO below Lower Azusa Road

LOCATION: WATER-STAGE RECORDER, LAT. 34°05'31", LONG. 118°01'51", ON THE RIGHT (WEST) BANK ABOUT 300 FEET DOWNSTREAM FROM LOWER AZUSA ROAD AND ABOUT 1.5 MILES NORTH OF EL MONTE. ELEVATION OF ZERO GAGE HEIGHT, 278.73 FEET. FORMER STATION F192-R WAS ON THE LOWER AZUSA ROAD BRIDGE.

DRAINAGE AREA: 40.9 SQUARE MILES. (EXCLUDES DRAINAGE ABOVE SANTA FE DAM.)

CHANNEL AND CONTROL: CHANNEL - TRAPEZOIDAL CONCRETE, DEPTH = 14 FEET, BOTTOM WIDTH IS 80 FEET, TOP WIDTH IS 143 FEET. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM CABLE CAR BELOW THE STATION.

RECORDER: A STEVENS TYPE A-35 RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATIONS: FLOW PARTIALLY REGULATED BY SIERRA MADRE DAM, BIG SANTA ANITA DAM, SAWPIT DAM, SPILLWAY AND DIVERSION AT SANTA FE DAM, PECK ROAD PIT, BUENA VISTA PIT AND SEVERAL DEBRIS BASINS.

DIVERSIONS: THE CITY OF MONROVIA DIVERTS WATER FROM MONROVIA CREEK AND SAWPIT CREEK. THE CITY OF SIERRA MADRE DIVERTS WATER FROM LITTLE SANTA ANITA CANYON. FLOW FROM SAN GABRIEL RIVER BELOW SANTA FE DAM IS OCCASIONALLY DIVERTED TO RIO HONDO. THERE ARE ALSO SEVERAL DIVERSIONS FOR IRRIGATION AND SPREADING GROUNDS.

RECORDS AVAILABLE: FEBRUARY 22, 1932 TO MARCH 29, 1932 - STREAM MEASUREMENTS ONLY. AT STATION F192-R RECORDER RECORDS FROM MARCH 29, 1932 TO MAY 7, 1958 AND FROM DECEMBER 18, 1958 TO SEPTEMBER 30, 1961. (FOR RECORDS PRIOR TO MARCH 29, 1932, SEE STATE DIVISION OF WATER RIGHTS BULLETIN.)

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 185 SECOND-FEET JANUARY 12.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 132 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW AT VARIOUS TIMES.
1932-61
MAXIMUM 31,000 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW MOST OF YEAR FOR SEVERAL YEARS.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

7M(D)4M Cib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F192B-R

Daily discharge, in second-feet of RIO HONDO below Lower Azusa Road, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.1	0	0	12.6	4.1	0	0	0	0	0	0
2	0	0	0	0	0.3	+	0	0	0	+	0	0
3	0	0	+	0	0	0	+	0	0	+	0	0
4	0	0	0	+	0	+	0	0.1	0	0	0	0
5	0	0	0	0	0	0	+	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	+	0	0
7	0	0	0	0	0	0	0	0	0	+	+	0
8	0	0	0.3	0	6.0	0	0	0	0	0	0	0
9	0	0	+	0	0.1	+	0	0	0	+	0	0
10	0	0	0	15.6	1.6	0	0	0	+	+	0	0
11	0	0	0	11.2	0.6	0	0	0	+	+	0	0
12	0	0	0	10.2	1.2	0	0	0	0	0	0	0
13	0	0	0	0.1	0	0	+	0	0	0	0	0
14	0	0	0	3.5	0	0	0	0	0	0	0	0
15	0	0	+	4.9	1.4	0	0	0	0	+	0	0
16	0	0	+	0	1.4	0	0	0	0	+	0	0
17	0	0	0	0	1.3	0	+	0	0	+	0.3	0
18	0	0	0	+	1.4	0	0	0	0	0	0	0
19	0	0	0	+	1.3	+	0	0	0	+	0	0
20	0	0	0.6	0	+	0	0	0	0	—	0	0
21	0	0	1.4	0	+	0	0	0	0	—	0	0
22	0	0	0	0	1.1	0	0	0	+	—	0	0
23	0	0	0	0	0.8	0	0	0	—	—	0	0
24	0	0	16.5	0	1.3	0	0	0	—	—	0	0
25	0	0	2.6	4.0	+	+	0	0	—	+	0	+
26	0	0	0	0.8	0	0	0.9	0	+	0	0	+
27	+	0	0	0	+	0.8	3.0	0	0	0	+	0
28	0	0	0	0.1	2.3	2.9	1.0	0	0	+	0	0
29	0	0	0	0	6.8	+	0	0	+	0	0	0
30	0	0	+	0		0	0	0	0	0	0	0
31	0		+	0		+		0		+	0	
	+		21.4		41.5		3.1.9		+		0.3	
		0.1		50.4		7.8		0.1		+		+
MEAN	+	+	0.69	1.63	1.43	0.25	1.06	+	+	+	0.01	+
ACRE-FEET	+	+	42.	100.	82.	15.	63.	0.2	+	+	0.6	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.42
ACRE-FEET 303.

7-57 FCM Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

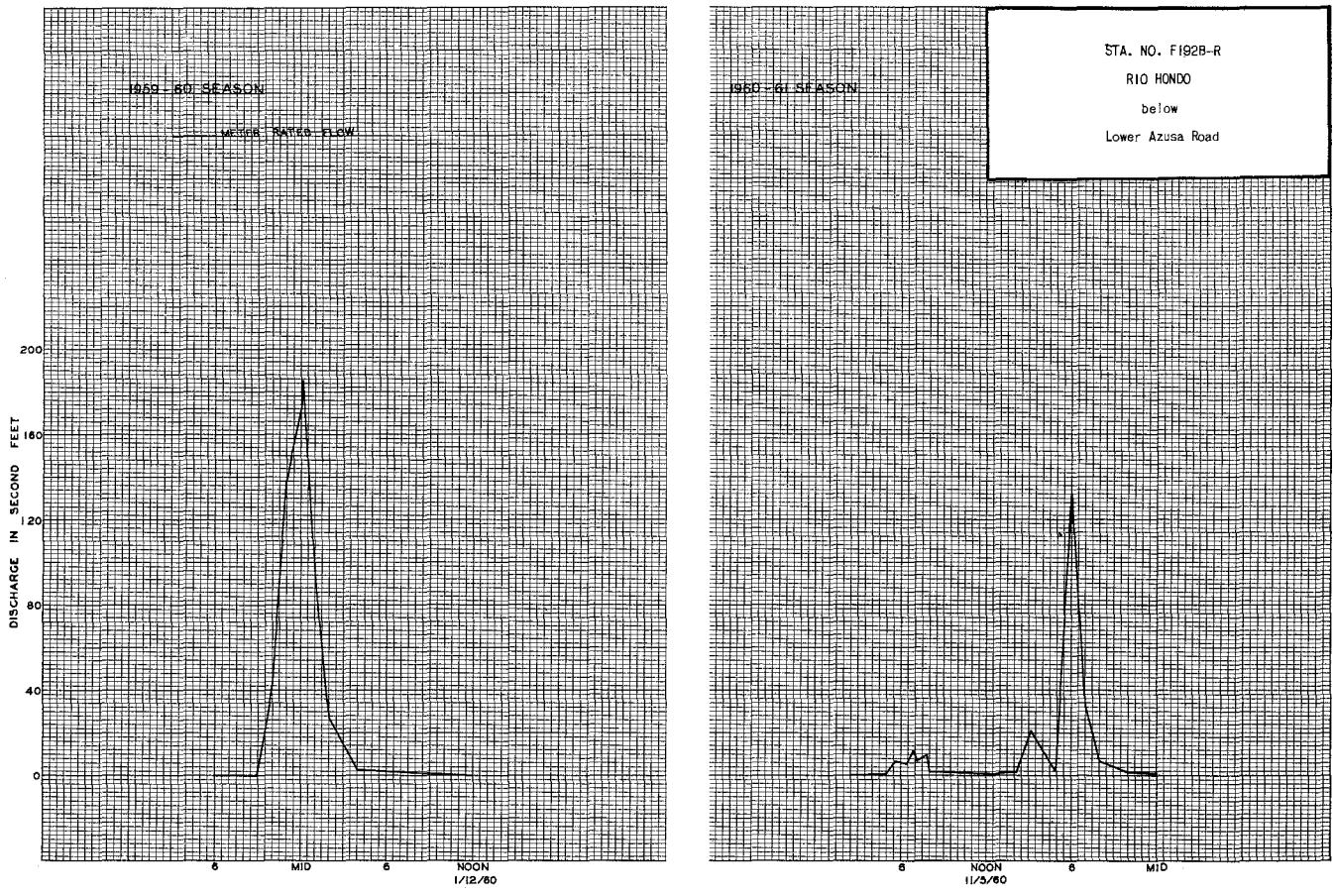
Sta. No. F192B-R

Daily discharge, in second-feet of RIO HONDO below Lower Azusa Road for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	+	0	0	0.2	+	+
2	0	0	0.5	0	0	0		0	0	0 1	+	+
3	0	3.8	0	0	0	0		0	0	0 2	+	0 1
4	0	+	0	0	0	0.4	+	0	0	0 1	0	0
5	0	10.6	0	0	0	+	0	0	0	0 2	0 1	0
6	0	0.4	0	0	0	0	0.2	0	0	0 1	+	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	+
9	+	0.2	0	0	0	+	+	0	0	+	0	0
10	0.5	0	0	0	0	+	0	0	0	0 1	0	0
11	0	0	+	0	0	0	0	0	0	0 3	0	0
12	0	11.3	0	0	0	0	0	0	0	+	0	0
13	0	+	0	0	0	0	0	0	0		+	0
14	0	0	0	+	0	0	0	0	0			0
15	0	0	+	0.1	0	5.5	+	0	0 2			0
16	+	0	0	0	0	+	+	0	0.5	+		+
17	0	0	0	0	0	0	+	0	0 2	0	+	0
18	0	0	0	0	0	0	0	0	+	+	0	0
19	0	0	0	0	0	0	0	+	+	0	+	0
20	0	0	0	0	0	+	0		0 1	+		0
21	0	0	0	0	0	0	0		0 1	0		0
22	+	0	0	0	0	0	0.5		0 2	0		0
23	0	0	0	0	0	0.1	0		0 2	0		0
24	0	+	0	0	0.2	0.1	0		0 1	0		0
25	0	+	0	1.2	0	0.8	0		0 1	0		0
26	0	8.7	0	16.1	0	+	0		0 3	+		0
27	0	+	0	0.2	0	+	0		0 3	0		0
28	0	0	0	0	0	0.5	0		0 2	0	+	0
29	0	0	0	0		0	0		0 2	0	0	+
30	0	0	0	0		0	0	+	0 1	0	0	+
31	0		0	0		0		0		0	0	
	0.5		0.5		0.2		0.7		2.8		0 1	
		35.0		17.6		7.4		+		1.3		0 1
MEAN	0.02	1.17	0.02	0.6	0.01	0.24	0.02	+	0.09	0.05	+	+
ACRE-FEET	1.0	69.	1.0	35.	0.4	15.	1.4	+	5.6	2.6	0.2	0.2

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.18
ACRE-FEET 131.



STATION E326-R

RIO HONDO below Garvey Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°03'30", LONG. 118°04'15", ON RIGHT (WEST) BANK 0.3 MILE BELOW GARVEY AVENUE, 0.4 MILE BELOW RUBIO WASH AND 2.2 MILES WEST OF EL MONTE. ELEVATION OF GAGE ABOUT 220 FEET.

RECORDS AVAILABLE: FEBRUARY 1956 TO SEPTEMBER 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 3380 SECOND-FEET APRIL 27, (GAGE HEIGHT, 3.25 FEET).
MINIMUM NO FLOW ON MARCH 29.
1960-61
MAXIMUM 2880 SECOND-FEET NOVEMBER 5, (GAGE HEIGHT 3.05 FEET).
MINIMUM NO FLOW ON DECEMBER 7.
1956-61
MAXIMUM 8150 SECOND-FEET JANUARY 6, 1959.
MINIMUM NO FLOW AT VARIOUS TIMES.

REMARKS: RECORDS GOOD TO 100 CFS AND POOR ABOVE. PARTIALLY REGULATED BY BIG SANTA ANITA, SAWPIT, AND EATON DAMS, AND SEVERAL DEBRIS BASINS. MANY DIVERSIONS FOR DOMESTIC AND IRRIGATION USE. FLOW FROM SAN GABRIEL RIVER BELOW SANTA FE DAM IS OCCASIONALLY DIVERTED TO RIO HONDO.

COOPERATION: RECORDS FURNISHED BY UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH. ONE HUNDRED-FIVE FLOW MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

FSD74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E326-R

Daily discharge, in second-feet of RIO HONDO below Garvey Avenue, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.6	3.0	0.8	0.3	244	80	0.1	0.3	1.8	2.4	1.8	2.3
2	2.4	1.0	0.7	0.4	11	1.0	0.1	0.8	1.8	1.2	2.3	2.6
3	2.6	0.8	0.7	0.2	0.4	0.4	0.1	1.6	2.8	0.3	1.9	0.8
4	2.6	0.6	0.5	0.4	0.3	0.4	0.7	0.9	1.9	0.2	1.8	0.7
5	2.6	0.7	0.2	0.3	0.3	0.4	1.3	0.1	2.0	0.8	1.8	0.7
6	2.8	0.4	0.2	0.5	0.2	0.4	1.6	0.5	2.0	1.6	2.6	1.3
7	2.4	0.5	0.5	0.5	0.2	0.2	1.6	1.0	2.0	1.9	0.6	2.4
8	2.6	0.3	3.3	0.4	8.5	0.2	1.0	0.1	2.0	2.5	1.3	1.9
9	2.6	0.4	0.8	2.5	3.1	0.2	0.7	0.6	2.0	2.6	2.4	1.9
10	2.6	0.5	1.0	2.9	1.7	0.2	0.3	1.4	1.6	1.0	2.6	2.3
11	2.1	0.6	0.9	1.8	0.8	0.2	0.3	1.6	0.7	1.4	2.3	1.4
12	2.6	0.8	0.6	1.7	1.4	0.5	0.4	1.6	0.2	2.5	2.1	0.9
13	2.6	0.8	0.4	0.4	0.4	0.4	0.8	1.4	0.8	2.3	1.9	1.9
14	2.8	0.7	0.7	5.5	0.1	0.2	1.0	0.6	1.6	2.4	0.7	2.1
15	2.4	0.6	0.7	5.5	1.5	0.4	0.8	0.7	1.8	3.0	1.0	2.3
16	2.3	0.6	0.7	0.4	1.3	0.3	0.4	0.4	1.4	4.0	2.1	2.1
17	2.1	0.6	0.7	0.2	1.4	0.7	0.2	0.6	1.4	1.4	2.4	2.1
18	2.3	0.6	0.9	0.2	1.6	1.1	0.4	0.7	0.5	2.4	2.1	0.9
19	2.1	0.6	0.7	0.4	1.5	0.7	1.6	1.4	0.7	2.4	2.1	1.2
20	2.3	0.7	2.7	0.2	0.1	0.3	1.6	1.6	0.7	2.6	2.3	3.6
21	2.3	0.5	1.8	0.1	0.1	0.4	2.1	0.5	1.6	2.8	0.7	2.8
22	2.3	0.5	1.0	0.3	1.2	0.6	2.0	0.3	1.8	2.8	2.0	1.9
23	2.3	1.2	0.9	0.2	1.2	0.9	2.0	0.3	2.4	2.8	2.0	1.9
24	2.4	0.9	2.6	0.1	1.4	0.7	2.0	0.5	1.9	0.8	1.8	1.4
25	2.4	0.6	3.8	5.2	0.3	0.7	2.0	0.8	2.3	1.2	1.8	0.6
26	1.9	0.6	0.5	7.4	0.2	0.2	8.0	1.0	0.8	2.1	1.8	1.0
27	1.6	0.7	0.2	0.2	0.2	0.6	73.4	1.0	3.2	2.3	1.6	1.9
28	1.8	0.4	0.2	0.1	2.2	4.0	9.6	0.8	6.4	2.1	0.3	1.9
29	1.6	0.4	0.3	0.3	29.7	0	0.6	0.2	2.8	1.9	0.6	1.9
30	0.1	0.8	0.5	0.5		0.1	0.4	0.2	2.4	1.9	3.2	1.9
31	0.2		0.3	0.3		0.2		1.0		0.9	1.4	
	69.5	22.0	34.6	84.9.6	69.6.2	132.8	84.9.7	24.7	55.5	60.5	54.7	52.3
MEAN	2.21	0.73	11.1	27.4	24.0	4.28	28.3	0.80	1.85	1.95	1.76	1.74
ACRE-FEET	136.	44.	682.	1690	1380	263.	1690.	49.	110.	120.	108.	104.

Remarks:

YEAR OR PERIOD MEAN 8.77
ACRE-FEET 6380.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E326-R

Daily discharge, in second-feet of RIO HONDO below Garvey Avenue, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.2	1.4	0.2	0.2	0.3	0.6	0.7	0.6	0.3	2.3	1.4	2.1
2	0.4	0.6	14	0.6	0.2	0.2	0.2	0.8	0.6	0.5	1.4	1.3
3	0.9	157	0.2	0.6	0.2	0.2	0.7	0.3	0.4	1.6	1.4	0.5
4	1.9	2.0	0.1	0.4	0.1	1.4	0.9	0.3	0.1	0.5	1.8	0.3
5	1.9	282	0.1	0.4	0.1	0.3	0.7	0.2	0.3	2.1	1.8	2.3
6	2.1	89	0.2	2.6	0.3	0.2	5.9	0.3	0.6	1.0	1.8	2.1
7	1.9	1.3	0	0.4	0.2	0.4	0.5	0.1	0.7	2.4	1.4	2.3
8	1.3	0.4	0.1	0.4	0.2	0.7	0.2	0.9	0.8	1.9	1.6	1.9
9	5.8	0.3	0.1	0.3	0.3	0.4	0.2	1.9	0.8	0.7	1.8	2.1
10	4.1	0.3	0.1	0.3	0.3	0.7	0.2	1.1	0.5	3.2	1.8	2.1
11	0.4	1.2	0.1	0.3	0.3	0.3	0.9	0.6	0.5	3.0	1.8	2.1
12	0.2	333	0.3	0.3	0.4	0.3	1.8	0.2	0.3	2.4	1.9	2.1
13	0.4	2.7	0.3	0.2	0.4	0.4	1.6	0.1	0.7	1.9	0.5	2.1
14	0.9	0.5	0.5	0.3	0.4	0.5	1.3	0.2	1.5	1.9	1.3	2.6
15	2.4	0.4	0.4	0.3	0.5	133	0.5	0.4	1.5	1.9	1.6	3.4
16	0.6	0.2	0.7	0.5	0.3	0.6	0.2	0.7	1.5	0.8	1.9	2.6
17	1.2	0.2	0.3	0.3	0.3	0.5	1.2	0.3	1.5	1.3	2.1	2.1
18	2.4	0.2	0.3	0.4	0.2	0.1	1.8	0.3	1.5	2.1	2.1	3.2
19	2.1	0.2	0.6	0.3	0.2	0.1	0.7	0.2	1.5	2.1	2.1	3.2
20	1.8	0.1	0.6	0.2	0.6	0.6	0.4	0.2	1.3	2.1	0.7	2.4
21	0.9	0.2	0.6	0.1	1.0	0.2	0.4	0.2	1.4	2.3	2.6	1.6
22	0.4	0.2	0.8	0.1	0.5	0.2	13	0.8	1.4	2.1	1.8	1.8
23	0.3	0.2	0.4	0.2	0.3	0.3	0.1	1.2	1.8	0.6	2.3	1.3
24	0.6	0.1	0.3	0.3	0.3	0.8	0.2	0.8	1.9	1.0	1.8	0.4
25	1.2	0.1	0.2	9.6	0.2	16	0.3	0.7	0.8	1.8	1.6	0.9
26	0.5	240	0.2	559	0.2	0.1	0.4	1.0	2.4	1.9	1.8	2.1
27	0.6	1.7	0.3	2.7	0.4	0.6	0.2	0.7	3.4	1.6	0.7	2.1
28	2.4	0.5	0.4	0.7	0.9	3.9	0.5	0.2	3.4	1.8	1.9	1.8
29	0.8	0.6	0.3	0.1		0.2	0.3	0.4	2.6	1.9	2.4	1.2
30	0.7	0.4	0.3	0.1		1.4	0.2	0.4	3.2	0.5	2.1	0.4
31	1.2		0.2	0.3		0.8		0.1		0.8	1.9	
	43.5		23.2		9.6		36.2		39.2		53.1	
		1117.0		582.5		166.0		16.2		52.0		56.4
MEAN	1.40	37.2	0.75	18.8	0.34	5.35	1.21	0.92	1.31	1.68	1.71	1.88
ACRE-FEET	86	2220.	46.	1160.	19.	329.	72.	32.	78.	103.	105.	112.

Remarks:

YEAR OR PERIOD MEAN 6.01
ACRE-FEET 4360.

STATION F64-R
RIO HONDO above Mission Bridge

LOCATION: WATER-STAGE RECORDER, LAT. 34°01'55", LONG. 118°04'18", ON THE RIGHT (WEST) BANK APPROXIMATELY 1000 FEET ABOVE MISSION BRIDGE (SAN GABRIEL BOULEVARD) AND TWO MILES NORTHEAST OF MONTEBELLO. THIS SUPPLEMENTS THE STATION OPERATED FROM 1923 TO 1928 BY THE STATE DIVISION OF WATER RIGHTS AT MISSION BRIDGE, ELEVATION OF ZERO HEIGHT, 194.63 PRIOR TO OCTOBER 15, 1956. AFTER THIS DATE, ELEVATION OF ZERO GAGE HEIGHT IS 192.83.

DRAINAGE AREA: 115 SQUARE MILES (EXCLUDES DRAINAGE ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: CHANNEL - SAND AND SILT, NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM CABLE CAR 60 FEET BELOW STATION.

RECORDER: A STEVENS TYPE A-35 CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY SIERRA MADRE DAM, BIG SANTA ANITA DAM, SAWPIT DAM, EATON DAM, SANTA FE DAM, SEVERAL DEBRIS BASINS AND SPREADING AREAS, AND RELEASE FROM METROPOLITAN WATER DISTRICT'S MIDDLE FEEDER TO ALHAMBRA WASH.

DIVERSIONS: THE CITY OF PASADENA DIVERTS WATER FROM EATON CREEK. THE CITY OF MONROVIA DIVERTS WATER FROM SAWPIT CREEK AND MONROVIA CREEK. THE CITY OF SIERRA MADRE DIVERTS WATER FROM LITTLE SANTA ANITA CANYON. FLOW FROM SAN GABRIEL RIVER IS OCCASIONALLY DIVERTED TO RIO HONDO. THERE ARE ALSO SEVERAL DIVERSIONS FOR IRRIGATION AND SPREADING GROUNDS.

RECORDS AVAILABLE: JULY 1928 TO SEPTEMBER 30, 1961. (FOR RECORDS PRIOR TO JULY 1928 SEE STATE DIVISION OF WATER RIGHTS BULLETINS.) (RECORDS FROM MARCH 6, 1938 TO MARCH 15, 1938 ARE FROM STATION F64B-R.)

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 3900 SECOND-FEET JANUARY 12.
MINIMUM 5.9 SECOND-FEET APRIL 30.
1960-61
MAXIMUM 3030 SECOND-FEET JANUARY 26.
MINIMUM 0.4 SECOND-FOOT JULY 30.
1928-61
MAXIMUM 28,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM 0.4 SECOND-FOOT JULY 30, 1961.

ACCURACY: FAIR.

REMARKS: WATER PURCHASED FROM METROPOLITAN WATER DISTRICT PASSES THIS LOCATION FOR SPREADING IN THE COASTAL BASIN. DURING 1959-60 THESE IMPORTATIONS TOTALED 39,520 ACRE FEET AND IN 1960-61, 70,170 ACRE FEET.

OPERATION: OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN CO-OPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F64-R

Daily discharge, in second-feet of RIO HONDO above Mission Bridge, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	v 67	133	54	v128	429	v 76	13	12	16	21	21	v 238
2	74	99	53	v108	92	15	13	16	16	21	22	241
3	74	68	54	86	154	13	11	18	17	19	22	226
4	v 79	v 76	v 52	68	156	13	16	14	16	19	22	223
5	87	95	45	v 41	v156	13	31	10	15	19	24	238
6	91	76	45	v 41	v176	13	27	8.8	15	22	26	v 152
7	v101	60	44	v 41	v190	12	25	10	15	22	b 25	20
8	105	60	51	43	306	12	24	10	15	22	25	32
9	60	v 57	46	29	62	12	25	b 9.9	14	20	25	34
10	50	54	46	435	98	12	24	b 9.8	14	18	25	26
11	44	v 57	45	v272	190	13	24	b 9.7	13	17	25	22
12	51	v 61	44	v208	192	13	23	9.6	14	18	25	27
13	58	68	44	111	v166	13	27	9.6	16	18	24	29
14	31	68	44	v188	157	13	21	9.2	17	19	24	30
15	8.0	67	44	v209	159	13	12	8.8	17	18	24	30
16	8.3	63	46	v182	158	13	12	8.8	17	b 19	b 24	29
17	20	60	46	180	v158	13	12	8.8	17	b 20	24	v 123
18	29	60	46	136	160	13	12	8.5	17	21	24	226
19	28	60	46	54	154	11	13	9.2	16	22	34	240
20	v 76	62	v 60	82	158	12	13	9.2	16	b 22	80	253
21	150	63	110	80	v157	12	14	8.8	18	22	105	253
22	v108	60	v 48	87	159	12	16	8.5	19	21	70	251
23	v103	60	v 47	v 84	v139	12	13	8.5	19	19	25	247
24	86	60	433	v 84	v 99	12	12	8.5	19	19	26	247
25	84	60	41	163	20	12	12	9.6	19	21	113	247
26	84	v 60	36	58	17	12	16	11	19	22	215	243
27	94	62	127	118	12	13	664	11	18	22	219	239
28	110	62	154	108	v 87	77	38	11	18	22	215	244
29	v129	60	154	122	v252	12	6.6	10	18	23	230	247
30	v134	61	140	131		12	5.9	11	19	22	232	v 247
31	v134		v126	v133		12		14		21	232	
	23573		2371.0	4433.0		11755		499.0		2227.0		
		2012.0		3810.0		516.0		321.8		631.0		4904.0
MEAN	76.0	67.1	76.5	123.	153.	16.6	39.2	10.4	16.6	20.4	71.8	163.
ACRE-FEET	4680.	3990.	4700.	7560.	8790.	1020.	2330.	638.	990.	1250.	4420.	9730.

Remarks:

YEAR OR PERIOD MEAN 69.0
ACRE-FEET 50100.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

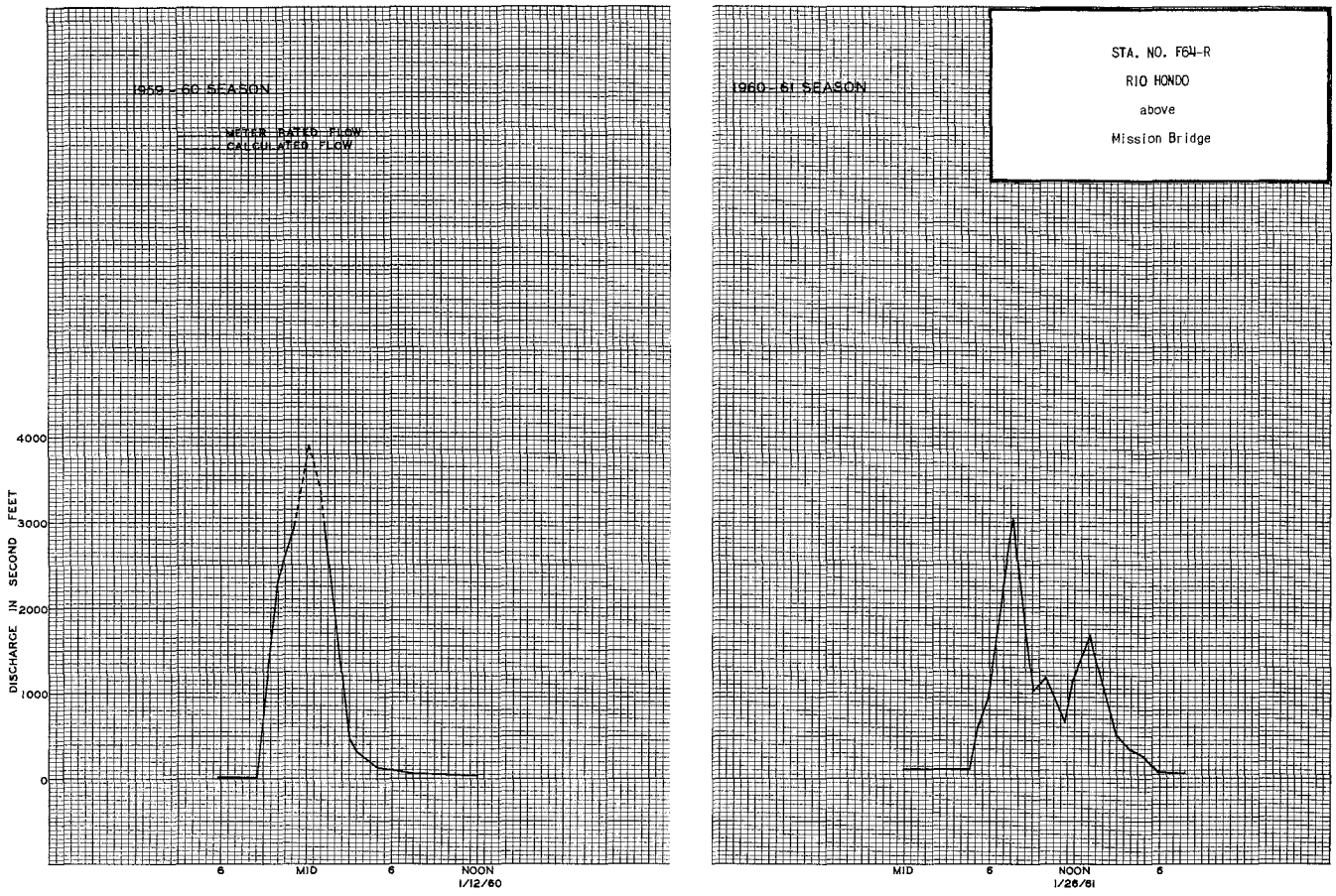
Sta. No. F64-R

Daily discharge, in second-feet of RIO HONDO above Mission Bridge, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	252	250	235	142	77	33	b 4.4	v 20	4.1	6.2	1.4	226
2	252	245	196	137	71	127	b 4.0	b 3.7	146	2.0	1.4	219
3	250	425	245	171	60	224	3.6	3.9	103	v 44	1.8	214
4	250	118	245	247	70	222	3.4	4.0	5.0	2.7	1.6	210
5	247	487	245	242	148	224	b 3.2	4.0	2.7	3.4	1.6	94
6	247	113	245	242	205	181	v 20	v 10	3.4	4.8	1.6	4.1
7	245	119	242	242	202	148	80	b 5.0	40	6.9	1.4	4.1
8	239	214	237	239	212	150	120	b 5.5	4.8	5.5	2.0	2.7
9	247	224	237	236	209	144	105	v 6.0	4.1	5.5	64	11
10	247	226	237	234	207	191	90	b 5.3	18	b 5.2	3.4	b 2.0
11	242	228	232	232	207	232	65	5.3	2.7	b 4.8	5.6	1.8
12	242	538	219	234	158	229	v 20	5.0	2.0	b 4.5	4.8	2.0
13	245	264	22	222	21	232	b 5.1	4.7	41	4.1	4.1	2.7
14	239	266	15	112	b 5.3	232	4.9	4.5	3.4	4.8	2.7	3.4
15	237	255	11	33	b 5.0	386	4.7	4.3	4.1	4.8	74	4.8
16	234	250	39	33	b 4.3	226	b 4.5	4.0	4.8	2.0	186	4.8
17	239	242	218	33	27	232	v 4.0	3.5	4.1	58	188	2.0
18	242	245	237	51	53	239	b 4.2	2.8	2.7	4.8	186	23
19	242	250	232	80	43	242	b 4.0	b 3.0	2.0	4.1	200	53
20	242	247	200	51	36	76	b 3.8	1.4	4.1	3.4	209	44
21	242	245	152	33	37	b 5.1	v 15	1.2	4.8	4.1	130	48
22	245	237	154	33	36	4.6	25	58	6.9	3.4	b 3.8	64
23	245	224	152	33	36	4.4	60	4.1	v 45	1.6	b 3.6	84
24	245	219	150	33	36	b 4.2	60	1.8	b 5.0	1.4	3.4	73
25	247	216	148	97	36	98	v 30	8.8	b 4.5	3.4	3.4	33
26	250	501	146	638	34	139	b 4.0	4.1	4.1	2.0	3.4	19
27	250	229	142	67	34	144	3.0	4.8	6.2	2.0	2.0	44
28	250	237	152	147	33	164	3.2	4.1	6.9	56	84	152
29	250	239	154	141		48	3.4	3.4	4.8	1.2	195	94
30	247	242	152	117		b 5.9	b 3.6	4.1	6.2	0.8	200	84
31	250		148	82		b 4.8		3.4		0.8	211	
	7601		5439	2302.6		4592.0	797.0		4964		1980.0	
		7793		4634				2577		2582		18234
MEAN	245.	260.	175.	149.	82.2	148.	26.6	8.31	16.5	8.33	63.9	60.8
ACRE-FEET	15090.	15460.	10790.	9200.	4570.	9100.	1580.	511.	985.	512.	3930.	3620.

Remarks:

YEAR OR PERIOD MEAN 104.
ACRE-FEET 75350.



STATION F313-R
RIO HONDO BY-PASS CHANNEL
above Whittier Narrows Dam

LOCATION: WATER-STAGE RECORDER ON THE LEFT (SOUTH) BANK OF THE CHANNEL, 400 FEET BELOW DIVERSION HEADWORKS.

CHANNEL AND CONTROL: CHANNEL - SOIL, SAND AND CLAY. ARTIFICIAL CONTROLS BELOW STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM FOOTBRIDGE AT STATION.

RECORDER: A STEVENS TYPE L RECORDER IN SERVICE DURING PERIODS OF OPERATION.

REGULATION: FLOW REGULATED AT HEADWORKS INSTALLED TO DIVERT A PORTION OF ZONE 1 WATER FROM SAN GABRIEL RIVER TO RIO HONDO.

ACCURACY: GOOD.

REMARKS: USED ONLY FOR ZONE 1 PURCHASED WATER DIVERTED TO RIO HONDO SPREADING GROUNDS. THERE WAS NO OPERATION DURING THE 1959-60 AND 1960-61 SEASONS.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

STATION F45B-R

RIO HONDO above Stewart and Gray Road

LOCATION: WATER-STAGE RECORDER, LAT. 33°56'46", LONG. 118°09'44". ON THE LEFT (EAST) BANK OF CHANNEL, 0.6 MILE UPSTREAM FROM JUNCTION OF RIO HONDO AND LOS ANGELES RIVER AND ABOUT 1.5 MILES WEST OF DOWNEY. THIS STATION IS NEAR LOCATION OF THE STATION OPERATED FROM 1923 TO 1926 BY THE STATE DIVISION OF WATER RIGHTS. ELEVATION OF ZERO GAGE HEIGHT, 91.4 FEET.

DRAINAGE AREA: 140 SQUARE MILES. (EXCLUDES DRAINAGE ABOVE SANTA FE DAM.)

CHANNEL AND CONTROL: CHANNEL - CONCRETE, 100 FEET WIDE WITH 2.25:1 RIPRAPPED SLOPES. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING NEAR GAGE; HIGH FLOWS MEASURED FROM CABLE CAR 15 FEET ABOVE STATION.

RECORDER: AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW IS SUBJECT TO SAME REGULATIONS AS STATION F64-R PLUS WHITTIER NARROWS DAM AND RIO HONDO SPREADING GROUNDS.

DIVERSIONS: THE CITY OF PASADENA DIVERTS WATER FROM EATON CREEK. THE CITY OF MONROVIA DIVERTS WATER FROM MONROVIA CREEK AND SAWPIT CREEK. THE CITY OF SIERRA MADRE DIVERTS WATER FROM LITTLE SANTA ANITA CANYON. THERE ARE ALSO SEVERAL DIVERSIONS FOR IRRIGATION AND SPREADING. FLOW FROM SAN GABRIEL RIVER BELOW SANTA FE DAM IS OCCASIONALLY DIVERTED TO RIO HONDO AND FROM SAN GABRIEL RIVER ABOVE WHITTIER NARROWS DAM.

RECORDS AVAILABLE: MARCH 1928 TO APRIL 18, 1951, AND FROM OCTOBER 31, 1951 TO SEPTEMBER 30, 1961 (FOR RECORDS PRIOR TO MARCH, 1928, SEE STATE DIVISION OF WATER RIGHTS BULLETINS.)

EXTREMES OF DISCHARGE:

1959-60
MAXIMUM 3030 SECOND-FEET JANUARY 12.
MINIMUM NO FLOW AT VARIOUS TIMES

1960-61
MAXIMUM 2090 SECOND FEET NOVEMBER 26.
MINIMUM NO FLOW AT VARIOUS TIMES.

1929-61
MAXIMUM 24,400 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES

ACCURACY: GOOD.

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY. OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F45B-R

Daily discharge, in second-feet of RIO HONDO above Stewart and Gray Road, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0.2	0	0	125	8.1	+	b 0.1	b 0.1	0	+	0
2	0	+	+	0	14.1	0.3		0.1	0	+		+
3	0	+		0	0.6	0.3		0.1	+	+		
4	0	0		0	0.6	0.2		b 0.3	+	+		
5	+	0		0	0.5	0.2		+	+	0		
6	0	0	+	0	0.5	0.2		+	0	+		
7	0	0	0	0	0.5	0.2		+	0			
8	0	+	b 0.1	+	21	0.1		b 0.1	+			
9	+	0	+	0	7.8	0.2		0.1	+			
10		+	b 0.1	153	16.2	0.2		0.1	b 0.1			
11		+	0	86	b 0.1	0.3		0.1	b 0.1			+
12		0	+	211	b 0.1	0.2		0.1	+	+		0.2
13		0	0	2.9	b 0.1	0.1		b 0.1	b 0.1	0		+
14		0	0	39	+	0.1		+	+	+		
15	+	+	0	38		0.1		0	0			
16	0	+	0	25		0.1		+	0			
17	+	+	0	+	+	0.4		+	0			+
18	+	0	0	0	0.6	0.2		+	0	+		0
19	0	0	0	0	+	0.1		0	0	0		0
20	0	0	+	+		0.3		+	0	+		0
21	0	0	9.6	0		0.2			0	0		+
22	0	0	+	0		0.2			0	0		0
23	0	+	+	+		0.2			+	+		0
24	+	0	117	+		0.2			0	+		+
25	0	0	8.8	11.7	+	0.2	+		0	0		
26	+	+	0.9	12.2	0	0.1	0.4		0	0		
27	0	0	+	b 0.1	+	0.1	219		+	+		+
28	0	0	0	+	22	18.0	7.5		+	0		0
29	0	0	0	+	34	0.1	0.3		0	+		0
30	0	+	0	+		0.2	b 0.1	+	0	+		0
31	0		b 0			+		0		+	+	
	+		1365		2437		2273		0.4		+	
		0.2		5564		314		1.2		+		0.2
MEAN	+	0.01	4.40	17.9	8.40	1.01	7.58	0.04	0.01	+	+	0.01
ACRE-FEET	+	0.4	271.	1100.	483.	62.	451.	2.4	0.8	+	+	0.4

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 3.27
ACRE-FEET 2370.

SEDT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

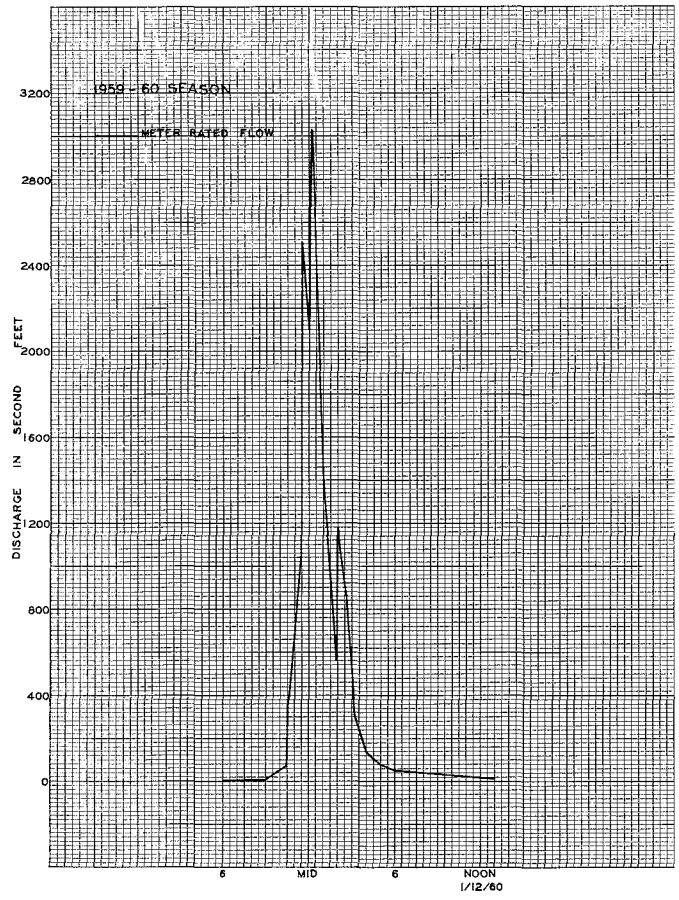
Sta. No. F45B-R

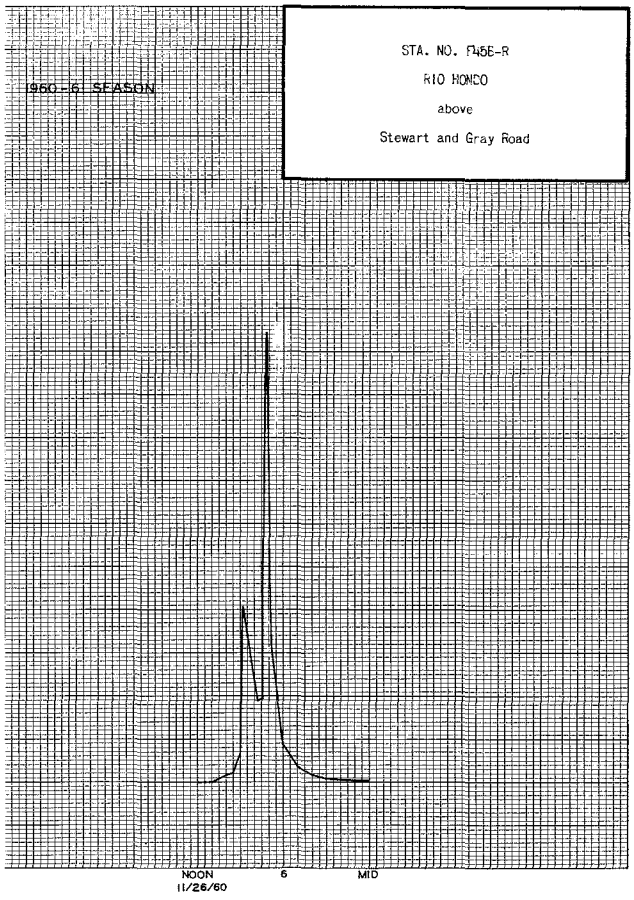
Daily discharge, in second-feet of RIO HONDO above Stewart and Gray Road for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	+	+	0 +	+	+	+
2	0	0	2.0	0	0	+		0				
3	0	8.9	0	0	0	0		0				
4	0	4.7	0	0	+	+	+	0				
5	0	4.0	0	0	+	0	0.1	+				
6	0	15.7	0	0	0	+	0.1					
7	+	0.4	0	0	+	0	+					
8	0	0	0	0		0.2	+					
9	0	0	0	0		+	0.1	C				
10	6.6	0	0	0		+	0.1					
11	0	0	0	0		0.1	+					
12	0	4.7	0	0	+	+	0.1					
13	+	4.1	0	0	0	+	+					+
14	0	0	0	0	+	0.3	0					0
15	0	0	0	+	0	3.9	0					+
16	0	0	0		0	0.5	0				+	+
17	0	0	0		0	+	+				3.1	0.6
18	0	0	0	+	0		0				1.2	+
19	0	0	0	0	+		0				+	+
20	0	0	0	+	+		0					+
21	0	0	0	0	+		0	+	C			0
22	0	0	0	0	0		5.8	0				0
23	0	0	0	0	+	+	+	0				0
24	0	0	0	+	0	0		+				0
25	0	0	0	6.7	+	2.1						+
26	0	9.4	0	11.5	+	+						0
27	+	1.3	0	4.3	0	+						0
28	+	0	0	0	+	4.7				+		0
29	+	0	0	0		+				0.3		0
30	0	0	0	0.2		0	+		+	+	+	0
31	0		0	0		+		C +		+	+	
	6.6		2.0	+		6.3			+		4.3	
		22.6.1		126.2		46.9		+		0.3		0.6
MEAN	0.21	7.54	0.07	4.07	+	1.51	0.21	+	+	+	0.14	0.02
ACRE-FEET	13.	448.	4.0	250.	+	93.	12.	+	+	0.6	8.8	1.2

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 1.15
ACRE-FEET 831.





STATION U6-R
ROGERS CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'55", LONG. 117°54'20", IN NW 1/4, NW 1/4 SEC. 23, T.1N, R10W, 0.5 MILE UPSTREAM FROM MOUTH AND 2.2 MILES NORTH OF AZUSA. ALTITUDE OF GAGE ABOUT 800 FEET. SUPPLEMENTARY RECORDER 300 FEET DOWNSTREAM BEGINNING JUNE 26, 1959.

DRAINAGE AREA: 6.4 SQUARE MILES.

RECORDS AVAILABLE: MAY 1916 TO JUNE 1917. (DISCHARGE MEASUREMENTS ONLY). OCTOBER 1917 TO SEPTEMBER 1961.

AVERAGE DISCHARGE: 44 YEARS, 2.81 SECOND-FEET.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM DISCHARGE 43 SECOND-FEET APRIL 27, (GAGE HEIGHT 3.04 FEET).
MINIMUM NO FLOW DURING SOME MONTHS.
1960-61
MAXIMUM DISCHARGE 60 SECOND-FEET JANUARY 26, (GAGE HEIGHT 3.33 FEET).
MINIMUM NO FLOW DURING MOST OF YEAR.
1917-61
MAXIMUM DISCHARGE (REVISED) ABOUT 2400 SECOND-FEET JANUARY 6, 1959.
MINIMUM NO FLOW DURING PART OF EACH YEAR.

REMARKS: RECORDS POOR. ONE SMALL DIVERSION ABOVE STATION FOR IRRIGATION.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH. TWO DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

760T4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U6-R

Daily discharge, in second-feet of ROGERS CREEK above Mouth of Canyon, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0.7	2.3	0	0.8	0	0	0	0
2	0	0	0	0	0.8	2.1	0	0.7	0	0	0	0
3	0	0	0	0	1.6	1.0	0	0.6	0	0	0	0
4	0	0	0	0	1.5	0.8	0	0.5	0	0	0	0
5	0	0	0	0	0.8	0.8	0	0.4	0	0	0	0
6	0	0	0	0	0	0.9	0	0.3	0	0	0	0
7	0	0	0	0	0	0.9	0	0.2	0	0	0	0
8	0	0	0	0	0.1	0.4	0	0.1	0	0	0	0
9	0	0	0	0	0.2	0.4	0	0	0	0	0	0
10	0	0	0	5.1	0.3	0.4	0	0	0	0	0	0
11	0	0	0	3.4	0.2	0.2	0	0	0	0	0	0
12	0	0	0	2.9	0.5	0.2	0	0	0	0	0	0
13	0	0	0	0.7	0.5	0.2	0	0	0	0	0	0
14	0	0	0	0.5	0.6	0.4	0	0	0	0	0	0
15	0	0	0	0.4	0.6	0.4	0	0	0	0	0	0
16	0	0	0	0.3	0.6	0.3	0	0	0	0	0	0
17	0	0	0	0.2	0.3	0.2	0	0	0	0	0	0
18	0	0	0	0.3	0.4	0.1	0	0	0	0	0	0
19	0	0	0	0.3	0.2	0	0	0	0	0	0	0
20	0	0	0	0.3	0.1	0	0	0	0	0	0	0
21	0	0	0	0.4	0.1	0.1	0	0	0	0	0	0
22	0	0	0	0.6	0.1	0.1	0	0	0	0	0	0
23	0	0	0	0.4	0.1	0.1	0	0	0	0	0	0
24	0	0	0.2	0.4	0.1	0.1	0	0	0	0	0	0
25	0	0	0.9	0.6	0.1	0.1	0	0	0	0	0	0
26	0	0	0.1	1.2	0.1	0.1	0	0	0	0	0	0
27	0	0	0.1	0.9	0.1	0.1	8.6	0	0	0	0	0
28	0	0	0	0.6	0.1	0.1	6.5	0	0	0	0	0
29	0	0	0	0.5	0.7	0.1	2	0	0	0	0	0
30	0	0	0	0.4		0.1	1.0	0	0	0	0	0
31	0		0	0.3		0.1		0		0	0	
	0	0	1.3	21.7	11.5	13.1	18.1	3.6	0	0	0	0
MEAN	0	0	0.04	0.70	0.40	0.42	0.60	0.12	0	0	0	0
ACRE-FEET	0	0	2.6	43.	23.	26.	36.	7.1	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.19
ACRE-FEET 138.

F6D74M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U6-R

Daily discharge, in second-feet of ROGERS CREEK above Mouth of Canyon, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0.1	0	0.1	0	0	0	0	0	0	0
2	0	0	0.1	0	0.1	0	0	0	0	0	0	0
3	0	0	0.1	0	0.1	0	0	0	0	0	0	0
4	0	0	0	0	0.1	0	0	0	0	0	0	0
5	0	0.1	0	0	0	0	0	0	0	0	0	0
6	0	0.1	0	0	0	0	0	0	0	0	0	0
7	0	0.1	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	1.0	0	0	0	0	0	0	0	0	0	0
13	0	0.5	0	0	0	0	0	0	0	0	0	0
14	0	0.1	0	0	0	0	0	0	0	0	0	0
15	0	0.1	0	0	0	0	0	0	0	0	0	0
16	0	0.1	0	0	0	0	0	0	0	0	0	0
17	0	0.1	0	0	0	0	0	0	0	0	0	0
18	0	0.1	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0.5	0	7.5	0	0	0	0	0	0	0	0
27	0	0.1	0	1.0	0	0	0	0	0	0	0	0
28	0	0.1	0	0.1	0	0	0	0	0	0	0	0
29	0	0.1	0	0.1		0	0	0	0	0	0	0
30	0	0.1	0	0.1		0	0	0	0	0	0	0
31	0		0	0.1		0		0		0	0	
	0		0.3		0.4		0		0		0	
		3.2		8.9		0		0		0		0
MEAN	0	0.11	0.01	0.29	0.01	0	0	0	0	0	0	0
ACRE-FEET	0	6.3	0.6	18.	0.8	0	0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.04
ACRE-FEET 26.

STATION F33B-R
RUBIO DIVERSION CHANNEL
below Gooseberry Canyon Inlet

LOCATION: WATER-STAGE RECORDER - LAT. 34°11'32", LONG. 118°07'02". ON THE LEFT (NORTHERLY) BANK, 375 FEET UPSTREAM OF CREST DRIVE, 3½ MILES NORTHEAST OF PASADENA. ELEVATION OF ZERO GAGE HEIGHT 1399.0.

DRAINAGE AREA: 2.1 SQUARE MILES

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE 12 FEET WIDE AND 11 FEET DEEP, BOTTOM IS WARPED 0.3 FOOT TOWARD STATION.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM STEEL FOOTBRIDGE 27 FEET ABOVE STATION.

RECORDER: AN H.C.F. RECORDER WAS IN SERVICE FROM DECEMBER 16, 1959 TO SEPTEMBER 30, 1961.

REGULATION AND/OR DIVERSIONS: FLOW PARTIALLY REGULATED BY RUBIO AND GOOSEBERRY DEBRIS BASINS. RUBIO CANYON LAND AND WATER ASSOCIATION DIVERTS LOW FLOWS IN RUBIO CANYON.

RECORDS AVAILABLE: DECEMBER 16, 1959 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 8.6 SECOND-FEET JANUARY 11.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 5.4 SECOND-FEET JANUARY 26.
MINIMUM NO FLOW AT VARIOUS TIMES.
1959-61
MAXIMUM 8.6 SECOND-FEET JANUARY 11, 1960.
MINIMUM NO FLOW AT VARIOUS TIMES EACH YEAR.

ACCURACY: GOOD

OPERATION: LOCATED, CONSTRUCTED, AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Cib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F338-R

Daily discharge, in second-feet of RUBIO DIVERSION below Gooseberry Canyon, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	+	0	+	0.4	0.1	0	0				0
2	0	+	0	0	+	+	0	0				0
3	0	+	0	0	+	0	0	0.1				0
4	0	0	0	+	0	0	0	+				0
5	0	0	0	+	0	0	0	+				0
6	0	0	0	0	0	+	0	0				0
7	0	+	0	+	+	0	0	0				0
8	0	+	0	0	0.2	0	+	0				0
9	0	0	0	+	+	0	0	0				0
10	0	0	0	0.4	+	0	0	0	STOPPED FOR SUMMER	STOPPED FOR SUMMER	STOPPED FOR SUMMER	0
11	0	0	0	0.4	0	+	+	0				0
12	0	0	0	+	0	+	0	0				0
13	0	+	0	+	0	+	0	0				0
14	0	+	0	0.1	+	0	0	0				0
15	0	0	0	0.1	+	0	0	0				0
16	+	0	+	+	0	0	0	0				0
17	+	0	—	0	0	0	0	0				0
18	+	0	0	0	0	0	0	0				0
19	0	0	0	0	0	0	0	0				0
20	+	0	0	0	0	+	0	0				0
21	0	0	+	0	+	+	0	0				0
22	0	+	0	+	0	+	0.1	0				0
23	+	0	+	+	+	0	+	0				0
24	0	0	0.8	+	0	0	0	0				0
25	+	0	0.1	0.2	0	0	0	0				0
26	+	0	0	0	0	0	0.1	0				0
27	0	0	+	0	0	0.2	0.4	0				0
28	0	0	0	0	0.1	0.1	+	0				0
29	+	+	+	0	0.5	0	0	0				0
30	+	0	0	0	—	0	0	0				0
31	+	—	+	0	—	0	—	0	—			—
	+		0.9		1.2		0.6		E +	E 0	E 0	
		+		1.2		0.4		0.1				0
MEAN	+	+	0.03	0.04	0.04	0.01	0.02	+	E +	E 0	E 0	0
ACRE-FEET	+	+	1.8	2.4	2.4	0.8	1.2	0.2	E +	E 0	E 0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.01
ACRE-FEET 8.8

76D74M Cib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F330-R

Daily discharge, in second-feet of RUBIO DIVERSION CHANNEL below Gooseberry Canyon Inlet, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	+	0	0	+	+	0				
2	0	0	0.1	0	0	0	0	0				
3	0	0.1	+	0	0	0	0	0				
4	0	0.1	—	0	0	+	+	+				
5	0	0.5	+	+	+	0	—	—				
6	0	0.3		0	0	0						
7	0	+		+	0	0						
8	0	0		+	0	0						
9	+	0		0	0	0						
10	0	0		0	+	+			RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER
11	0	0		0	0	—						
12	0	0.4		+	0							
13	0	+		0	0							
14	0	0	+	0	0	+						
15	0	0	0	0	0	0.4						
16	0	0	0	0	+	+						
17	0	0	0	0	+	—						
18	0	0	0	0	+							
19	0	0	0	0	0							
20	0	0	0	0	0							
21	0	0	0	0	0		+					
22	0	0	0	+	0		0.1					
23	0	0	0	—	0		+					
24	0	0	0		+		—					
25	0	0	0		0							
26	0	0.2	+	0.8	+							
27	0	+	0	+	+							
28	0	+	0	+	+		+	+				
29	0	0	0	0			0	0				
30	0	0	+	0	—		0	0				
31	0	—	+	0	—	+	—	0	—			—
	+		0.1		+		0.1	E +	E +	E +	E +	E +
		1.6		0.8		0.4						
MEAN	+	0.05	+	0.03	+	0.01	E +	E +	E +	E +	E +	E +
ACRE-FEET	+	3.2	0.2	1.6	+	0.8	0.2	E +	E +	E +	E +	E +

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.01
ACRE-FEET 6.0

STATION F82C-R
RUBIO WASH at Glendon Way

LOCATION: WATER-STAGE RECORDER, LAT. 34°04'27", LONG. 118°04'35", ON THE LEFT (EAST) SIDE OF CHANNEL, 10 FEET SOUTH OF THE WESTERLY EXTENSION OF GLENDON WAY, ROSEMEAD. ELEVATION OF ZERO GAGE HEIGHT, 274.06 FEET.

DRAINAGE AREA: 11.1 SQUARE MILES. (13.4 SQUARE MILES PRIOR TO OCTOBER 1959)

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE 48.1 FEET WIDE X 10.5 FEET DEEP TO BOTTOM OF 0.5 FOOT INVERT WITH 0.5 FOOT FILLETS AT VERTICAL SIDE WALLS.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOTBRIDGE AT STATION.

RECORDER: AN AU RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY LAS FLORES AND RUBIO DEBRIS BASINS.

DIVERSIONS: NONE.

RECORDS AVAILABLE: NOVEMBER 6, 1936 TO SEPTEMBER 30, 1961. FOR PREVIOUS RECORDS ON RUBIO WASH SEE STATIONS F82-R, F107-R, F82B-R, IN PREVIOUS REPORTS.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 985. SECOND-FEET JANUARY 11.
MINIMUM 0.2 SECOND-FOOT AT VARIOUS TIMES.
1960-61
MAXIMUM 902. SECOND-FEET NOVEMBER 6.
MINIMUM 0.2 SECOND-FOOT VARIOUS TIMES OF YEAR.
1930-61 (STATIONS F82-R, F82B-R, F82C-R).
MAXIMUM 3020 SECOND-FEET JANUARY 16, 1952.
MINIMUM NO FLOW AT TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. THE STILLING WELL AND COMMUNICATION CHANNEL WERE CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

75074M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F82C-R

Daily discharge, in second-feet of RUBIO WASH at Glendon Way for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.6	0.4	b 0.4	69	16.9	0.4	0.2	0.4	0.6	0.2	0.4
2	0.4	0.2	0.2	0.2	2.7	1.0	0.4	0.2	0.4	1.0	0.2	0.4
3	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.6	0.4	0.2	0.2	0.2
4	0.2	0.2	0.4	0.2	0.2	0.2	0.6	0.6	0.4	0.2	0.2	0.2
5	0.4	0.2	0.4	0.2	0.4	0.2	0.6	0.2	0.4	0.2	0.4	0.2
6	0.4	0.2	0.4	0.2	0.2	0.2	0.6	0.6	0.4	0.4	0.4	0.4
7	0.2	0.2	0.4	0.2	0.2	0.2	0.6	0.4	0.4	0.4	0.2	0.6
8	0.2	0.2	1.8	0.2	37	0.2	0.6	0.4	0.4	0.4	0.2	0.6
9	0.2	0.2	0.2	b 0.2	1.4	0.2	0.6	0.4	0.4	0.4	0.4	0.6
10	0.2	0.4	0.6	95	8.5	0.2	0.4	0.4	0.4	0.4	0.4	0.6
11	0.2	0.2	0.4	64	0.2	0.2	0.6	0.6	0.4	0.4	0.4	1.0
12	0.4	0.4	0.4	35	0.2	0.6	0.6	0.4	0.4	0.4	0.2	0.4
13	0.4	0.4	0.4	b 0.2	0.2	0.2	0.6	0.4	0.4	0.4	0.2	0.4
14	0.4	0.4	0.2	25	0.2	0.2	0.6	0.4	0.4	0.4	0.2	0.6
15	0.6	0.4	0.2	30	0.2	0.2	0.4	0.4	0.4	1.0	0.2	0.4
16	0.6	0.4	0.4	b 0.2	0.2	0.2	0.6	0.4	0.4	1.4	0.2	0.4
17	0.6	0.4	0.4	0.2	0.2	0.2	0.4	0.4	0.6	0.6	0.2	0.4
18	0.6	0.4	0.6	0.2	0.2	0.2	0.4	0.4	0.2	0.4	0.2	0.6
19	0.6	0.4	0.6	0.2	0.2	0.2	0.4	0.4	0.4	0.6	0.4	0.6
20	0.6	0.4	3.7	0.2	0.2	0.2	0.6	0.2	0.2	0.6	0.4	0.4
21	0.4	0.4	9.2	0.2	0.2	0.2	0.6	0.4	0.4	0.6	0.2	0.6
22	0.4	0.4	0.4	0.2	0.2	0.4	5.4	0.2	0.4	0.6	0.4	0.6
23	0.6	0.4	0.6	0.2	0.2	0.4	1.0	0.2	0.6	0.4	0.4	0.6
24	0.4	0.4	90	b 0.2	0.4	0.4	0.2	0.4	0.6	0.4	0.4	0.6
25	0.4	0.4	7.3	13.8	0.2	0.6	0.2	0.2	0.6	0.4	0.4	0.6
26	0.4	0.2	0.6	0.9	0.2	0.6	17.2	0.2	0.6	0.4	0.6	0.6
27	0.6	0.2	b 0.4	b 0.4	0.2	7.5	135	0.2	0.6	0.4	0.4	0.6
28	0.6	0.2	0.4	b 0.2	20	14.1	4.5	0.4	0.6	0.2	0.2	0.6
29	0.4	0.2	0.4	b 0.2	74	0.2	0.2	0.2	0.6	0.4	0.2	0.6
30	0.4	0.2	0.4	0.6		0.4	0.2	0.2	0.6	0.4	0.4	0.6
31	0.4		b 0.4	0.2		0.4		0.4		0.2	0.2	
	12.8		122.6		217.4		174.9		13.4		9.2	
		9.4		26.93		47.1		11.0		14.8		15.4
MEAN	0.41	0.31	3.95	8.69	7.50	1.52	5.83	0.35	0.45	0.48	0.30	0.51
ACRE-FEET	25.	19.	243.	534.	431.	93.	347.	22.	27.	29.	18.	30.

Remarks:

YEAR OR PERIOD MEAN 2.51
ACRE-FEET 1820.

75D74M Cib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

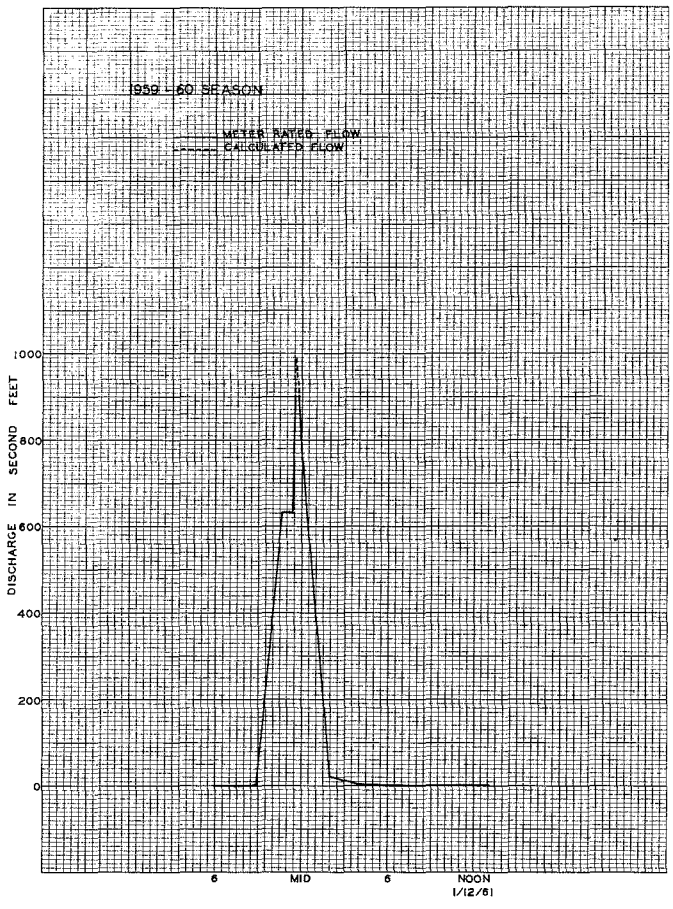
Sta. No. F82C-R

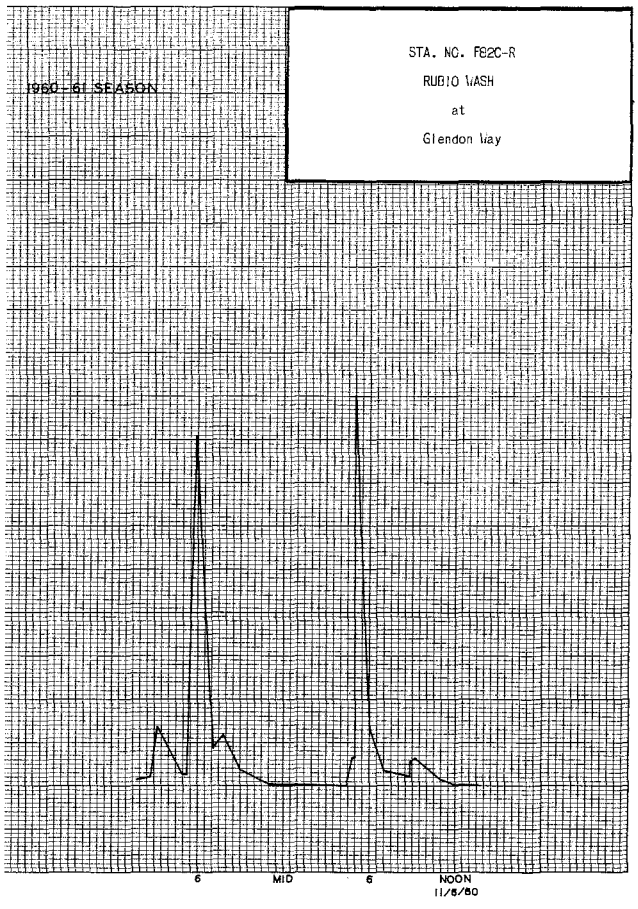
Daily discharge, in second-feet of RUBIO WASH at Glendon Way for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.4	2.4	0.2	0.4	0.4	1.0	0.4	0.4	1.0	0.6	0.2
2	0.6	0.6	12.0	0.2	0.6	0.6	0.2	0.4	0.4	0.4	0.4	0.2
3	0.4	57	0.6	0.4	0.6	0.6	0.4	0.6	0.4	1.0	0.6	0.2
4	0.6	1.8	0.4	0.2	0.4	0.6	0.4	0.6	0.2	0.2	0.6	0.2
5	0.4	73	0.4	0.2	0.2	0.4	0.4	0.6	0.4	0.6	0.4	0.2
6	0.4	37	1.0	3.2	0.4	0.6	4.9	0.6	0.4	0.2	0.4	0.4
7	0.4	1.0	0.6	0.4	0.2	1.0	0.4	0.4	0.4	0.6	0.2	0.4
8	0.4	0.4	0.6	0.6	0.4	1.4	0.2	0.4	0.4	0.2	0.2	0.4
9	3.1	0.2	0.4	0.6	0.2	0.4	0.2	0.4	0.4	0.2	0.4	0.4
10	0.2	0.2	0.4	0.6	0.2	0.4	0.2	0.4	0.6	0.6	0.6	0.4
11	0.2	0.2	0.2	0.4	0.2	0.4	0.2	0.4	1.0	0.4	0.6	0.4
12	0.2	64	0.4	0.2	0.2	0.6	0.2	0.4	0.2	0.2	0.6	0.6
13	0.4	1.0	0.2	0.2	0.2	0.4	0.2	0.6	0.4	0.2	0.4	0.6
14	0.4	0.2	0.2	0.2	0.4	0.4	0.2	0.4	0.2	0.4	0.4	1.0
15	0.4	0.2	0.2	0.4	0.4	41	0.2	0.6	0.2	0.4	0.6	1.4
16	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.6	0.4	0.2	0.6	0.6
17	0.2	0.2	0.2	0.4	0.2	0.2	0.4	0.6	0.2	0.2	0.6	0.4
18	0.4	0.2	0.2	0.4	0.2	0.2	0.4	0.4	0.2	0.2	0.6	1.4
19	0.4	0.2	0.2	0.4	0.2	0.2	0.4	0.4	0.2	0.4	0.4	1.4
20	0.6	0.2	0.2	0.4	0.2	0.2	0.4	0.6	0.2	0.4	0.4	1.4
21	0.4	0.2	0.2	0.4	0.2	0.2	0.2	0.4	0.2	0.4	0.4	1.4
22	0.4	0.2	0.2	0.4	0.2	0.2	12.0	0.4	0.4	0.4	0.4	1.4
23	0.4	0.2	0.2	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.4	1.4
24	0.4	0.2	0.2	0.4	0.2	2.2	0.2	0.4	0.4	0.4	0.4	0.4
25	0.4	0.2	0.2	2.6	0.2	5.4	0.2	0.4	0.2	0.6	0.4	0.6
26	0.4	56	0.2	117	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.6
27	0.6	1.9	0.2	1.0	0.2	0.2	0.2	0.2	0.6	0.6	0.4	0.6
28	1.4	0.6	0.4	1.0	0.2	2.7	0.4	0.2	1.0	0.4	0.4	0.2
29	0.4	0.4	0.6	0.6		0.2	0.6	0.2	0.4	0.4	0.4	0.2
30	0.4	0.4	0.4	0.4		1.4	0.4	0.2	1.4	0.4	0.2	0.4
31	0.6		0.2	0.4		0.6		0.4		0.4	0.2	
	163	298.5	240	134.6	7.6	63.7	259	13.4	12.6	12.8	13.6	19.4
MEAN	0.53	9.95	0.77	4.34	0.27	2.05	0.86	0.43	0.42	0.41	0.44	0.65
ACRE-FEET	32.	592.	48.	267.	15.	126.	51.	27.	25.	25.	27.	38.

Remarks:

YEAR OR PERIOD MEAN 1.76
ACRE-FEET 1270.





STATION U15-R

SAN ANTONIO CREEK below Edison Co. Power Plant Diversion

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR CONTROL, LAT. 34°12'58", LONG. 117°40'04", IN SE 1/4, SW 1/4, NW 1/4 SEC. 36 T.2N, R.8W, ON RIGHT BANK, 0.5 MILE UPSTREAM FROM SOUTHERN CALIFORNIA EDISON COMPANY'S SIERRA POWER PLANT AND 8.8 MILES NORTHEAST OF CLAREMONT. ALTITUDE OF GAGE ABOUT 3400 FEET.

DRAINAGE AREA: 16.9 SQUARE MILES.

RECORDS AVAILABLE: MARCH 1901 TO SEPTEMBER 1961.

AVERAGE DISCHARGE: 44 YEARS (1917-61), 8.96 SECOND-FEET, AVERAGE COMBINED DISCHARGE OF CREEK AND CONDUIT; 56 YEARS (1901-61), 21.9 SECOND FEET.

EXTREMES OF DISCHARGE:

1959-60
MAXIMUM 8.8 SECOND-FEET APRIL 27, GAGE HEIGHT 1.54 FEET.
MINIMUM DAILY 0.2 SECOND-FOOT ON MANY DAYS.

1960-61
MAXIMUM 4.4 SECOND-FEET FEBRUARY 16, GAGE HEIGHT 1.44 FEET.
MINIMUM 0.1 SECOND-FOOT ON MANY DAYS.

1917-61
MAXIMUM 21,400 SECOND-FEET MARCH 2, 1938. (REVISED BY HYDROLOGIC STUDIES).
MINIMUM NO FLOW AUGUST 24-27, 1931, SEPTEMBER 1, OCTOBER 17-21, 1951.

REMARKS: RECORDS GOOD. SOUTHERN CALIFORNIA EDISON COMPANY'S CONDUIT DIVERTS WATER ABOVE STATION AND COMBINED FLOW IS PUBLISHED HEREWITH.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH. FIFTY DISCHARGE MEASUREMENTS FURNISHED BY LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Qlb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U15-R

Daily discharge, in second-feet of SAN ANTONIO CREEK below Edison Company Power Plant Diversion, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.6	0.6	0.5	0.7	1.1	0.9	0.8	1.4	0.4	0.3	0.2	0.3
2	0.5	0.6	0.5	0.7	1.4	0.9	0.7	1.4	0.4	0.3	0.2	0.3
3	0.5	0.6	0.5	0.7	1.4	0.9	0.6	1.3	0.4	0.2	0.2	0.3
4	0.4	0.6	0.5	0.7	1.3	1.0	0.6	1.3	0.4	0.2	0.2	0.2
5	0.4	0.6	0.5	0.7	1.2	1.0	0.6	1.2	0.4	0.2	0.2	0.2
6	0.4	0.6	0.5	0.7	1.1	0.9	0.6	1.0	0.4	0.2	0.2	0.2
7	0.4	0.6	0.5	0.7	1.0	0.9	0.5	1.0	0.4	0.3	0.2	0.2
8	0.4	0.5	0.5	0.7	1.0	0.9	0.5	0.8	0.4	0.3	0.2	0.2
9	0.4	0.5	0.6	0.7	1.0	0.9	0.5	0.8	0.4	0.2	0.2	0.2
10	0.4	0.5	0.6	1.3	1.0	0.8	0.5	0.7	0.4	0.2	0.3	0.2
11	0.4	0.5	0.6	1.1	1.0	0.8	0.5	0.6	0.4	0.2	0.3	0.2
12	0.4	0.6	0.6	1.5	0.9	0.8	0.5	0.6	0.4	0.2	0.3	0.2
13	0.4	0.6	0.6	1.2	0.9	0.8	0.5	0.6	0.4	0.2	0.3	0.2
14	0.4	0.6	0.6	1.1	0.9	0.7	0.5	0.6	0.4	0.2	0.3	0.2
15	0.4	0.6	0.5	1.0	0.8	0.7	0.5	0.6	0.4	0.2	0.3	0.2
16	0.4	0.5	0.5	0.9	0.8	0.7	0.5	0.6	0.4	0.2	0.3	0.2
17	0.4	0.5	0.5	0.8	0.8	0.7	0.5	0.6	0.3	0.2	0.3	0.2
18	0.4	0.5	0.5	0.8	0.8	0.7	0.5	0.6	0.3	0.2	0.3	0.2
19	0.4	0.5	0.5	0.8	0.8	0.7	0.5	0.6	0.3	0.2	0.3	0.2
20	0.4	0.5	0.6	0.8	0.8	0.7	0.5	0.6	0.3	0.2	0.3	0.2
21	0.5	0.5	0.6	0.8	0.8	0.6	0.5	0.5	0.3	0.2	0.3	0.2
22	0.5	0.5	0.6	0.8	0.8	0.6	0.7	0.5	0.3	0.2	0.4	0.2
23	0.5	0.5	0.6	0.8	0.8	0.7	0.7	0.5	0.3	0.3	0.4	0.2
24	0.5	0.4	1.0	0.9	0.8	0.7	0.7	0.4	0.3	0.3	0.4	0.2
25	0.5	0.4	1.0	1.0	0.8	0.7	0.7	0.4	0.3	0.2	0.3	0.2
26	0.5	0.4	1.0	1.0	0.8	0.7	0.7	0.4	0.3	0.3	0.3	0.2
27	0.5	0.4	0.8	1.0	0.8	0.8	2.1	0.4	0.3	0.3	0.3	0.2
28	0.6	0.4	0.7	1.0	0.8	0.8	2.1	0.4	0.3	0.2	0.3	0.2
29	0.6	0.4	0.7	1.0	1.0	0.8	1.7	0.4	0.3	0.2	0.3	0.2
30	0.6	0.4	0.7	1.0		0.8	1.5	0.4	0.3	0.2	0.3	0.3
31	0.6		0.7	1.0		0.8		0.4		0.2	0.3	
	14.3	15.4	19.1	27.9	27.4	24.4	22.3	21.6	10.6	7.0	8.7	6.4
MEAN	0.46	0.51	0.62	0.90	0.94	0.79	0.74	0.70	0.35	0.23	0.28	0.21
ACRE-FEET	28.	31.	38.	55.	54.	48.	44.	43.	21.	14.	17.	13.

Remarks:

YEAR OR PERIOD MEAN 0.56
ACRE-FEET 406.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. _____

Daily discharge, in second-feet of SAN ANTONIO CREEK AND SOUTHERN CALIFORNIA EDISON CO'S CONDUIT, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	6.9	7.1	6.2	6.5	7.7	3.2	8.0	9.3	9.0	6.6	5.6	5.2
2	6.8	6.8	6.2	6.5	3.2	7.9	7.9	9.2	9.0	6.6	5.4	5.2
3	6.8	6.5	6.3	6.5	7.9	7.9	7.6	9.1	9.0	6.5	5.4	5.2
4	6.7	6.5	6.2	6.5	7.8	8.0	7.6	9.2	9.0	6.8	5.4	5.1
5	6.7	6.5	6.2	6.5	7.8	8.0	7.9	9.7	9.0	6.8	5.4	5.1
6	6.7	6.5	6.2	6.6	7.4	8.0	7.9	8.6	8.7	6.5	5.4	5.1
7	6.7	6.5	6.2	6.6	7.4	8.0	7.8	8.6	9.2	6.6	5.4	5.1
8	6.7	6.4	6.2	6.6	8.0	8.0	7.8	8.5	9.3	6.6	5.4	5.1
9	6.7	6.4	6.2	6.6	7.6	8.0	7.8	8.5	9.3	6.5	5.4	4.8
10	6.4	6.4	6.8	8.0	7.6	7.9	7.8	8.2	8.3	6.2	5.6	4.8
11	6.4	6.5	6.5	6.7	7.7	7.9	7.8	8.1	8.3	6.2	5.5	4.8
12	6.4	6.6	6.2	8.2	7.6	7.9	8.0	8.1	8.0	6.2	5.5	4.8
13	6.4	6.6	6.2	7.6	7.6	7.9	7.7	8.1	8.0	6.2	5.5	4.8
14	6.4	6.6	6.2	7.3	7.6	7.8	7.7	8.4	7.7	6.2	5.5	4.8
15	6.4	6.5	6.1	7.2	7.3	7.8	7.7	8.4	7.7	6.2	5.5	4.8
16	6.4	6.4	6.1	7.2	7.3	7.9	7.7	8.4	7.7	5.9	5.5	4.8
17	6.4	6.4	6.1	7.0	7.3	7.8	7.8	8.6	7.6	5.9	5.5	4.8
18	6.4	6.4	6.1	7.0	7.3	7.6	7.8	8.8	7.6	5.9	5.5	4.8
19	6.4	6.4	6.1	7.1	7.3	7.6	7.8	9.1	7.4	5.9	5.2	4.8
20	6.4	6.4	6.2	7.1	7.3	7.6	7.8	9.1	7.4	5.9	5.2	4.8
21	6.5	6.5	6.1	7.1	7.4	7.5	7.7	9.3	7.4	5.9	5.5	4.8
22	6.2	6.5	5.8	7.2	7.4	7.5	8.2	9.6	7.1	5.9	5.6	4.8
23	6.2	6.2	5.6	7.2	7.4	7.6	8.5	9.6	7.1	6.0	5.6	4.8
24	6.2	6.1	7.1	7.2	7.4	7.6	9.2	9.5	7.1	6.0	5.6	4.8
25	6.2	6.1	6.3	7.4	7.4	7.6	9.2	9.5	7.1	5.9	5.2	4.8
26	6.2	6.1	6.5	7.4	7.4	7.6	9.2	9.5	7.1	6.0	5.2	4.8
27	6.2	6.1	6.5	7.3	7.7	7.7	11	9.5	7.1	5.7	5.2	4.8
28	6.3	6.1	6.3	7.3	8.0	8.0	11	9.3	7.1	5.6	5.2	4.8
29	6.2	6.1	6.5	7.2	9.3	9.0	9.8	9.3	6.9	5.6	5.2	4.8
30	6.5	6.1	6.6	7.2		9.0	9.3	9.3	6.9	5.6	5.2	4.9
31	6.5		6.5	7.2		8.0		9.3		5.6	5.2	
	200.3	192.3	194.4	219.0	230.1	242.6	246.4	276.9	235.2	190.0	167.4	146.8
MEAN	6.46	6.41	6.27	7.06	7.59	7.83	8.21	8.93	7.84	6.13	5.40	4.89
ACRE-FEET	397.	381.	386.	434.	437.	481.	489.	549.	467.	377.	332.	291.

Remarks:

YEAR OR PERIOD MEAN 6.92
ACRE-FEET 5020.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U15-R

Daily discharge, in second-feet of SAN ANTONIO CREEK below Edison Company Power Plant Diversion, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.2	0.4	0.4	0.5	0.3	0.4	0.4	0.3	0.1	0.2	0.1
2	0.3	0.2	0.4	0.4	0.5	0.3	0.4	0.3	0.3	0.1	0.2	0.1
3	0.2	0.4	0.4	0.4	0.5	0.3	0.4	0.3	0.3	0.1	0.2	0.1
4	0.2	0.4	0.4	0.4	0.5	0.3	0.4	0.3	0.3	0.1	0.3	0.1
5	0.2	0.5	0.4	0.4	0.5	0.3	0.4	0.3	0.3	0.1	0.2	0.1
6	0.2	1.0	0.5	0.4	0.5	0.3	0.4	0.3	0.3	0.1	0.2	0.1
7	0.2	0.8	0.5	0.4	0.4	0.3	0.4	0.3	0.3	0.1	0.2	0.1
8	0.3	0.9	0.5	0.4	0.4	0.3	0.4	0.3	0.3	0.1	0.2	0.1
9	0.4	0.8	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.1	0.1	0.2
10	0.5	0.7	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.2
11	0.5	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.1
12	0.4	0.9	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.1
13	0.4	0.8	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.1
14	0.4	0.8	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.1
15	0.4	0.8	0.5	0.4	0.4	0.3	0.3	0.4	0.2	0.1	0.1	0.1
16	0.4	0.8	0.5	0.4	0.4	0.3	0.3	0.4	0.2	0.1	0.1	0.1
17	0.3	0.7	0.5	0.4	0.4	0.3	0.3	0.4	0.2	0.1	0.1	0.1
18	0.3	0.6	0.5	0.4	0.4	0.3	0.3	0.4	0.2	0.1	0.1	0.1
19	0.3	0.6	0.5	0.4	0.4	0.3	0.3	0.4	0.2	0.1	0.1	0.1
20	0.3	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.2
21	0.3	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.1	0.2
22	0.2	0.6	0.5	0.4	0.3	0.3	0.4	0.3	0.2	0.1	0.1	0.2
23	0.2	0.6	0.5	0.4	0.3	0.3	0.4	0.3	0.1	0.1	0.1	0.2
24	0.2	0.6	0.5	0.4	0.3	0.3	0.4	0.3	0.1	0.1	0.1	0.2
25	0.2	0.6	0.5	0.4	0.3	0.3	0.4	0.3	0.1	0.1	0.1	0.2
26	0.2	0.6	0.5	0.9	0.3	0.3	0.4	0.3	0.1	0.1	0.1	0.2
27	0.2	0.6	0.5	0.7	0.3	0.3	0.4	0.3	0.1	0.1	0.1	0.1
28	0.2	0.5	0.5	0.7	0.3	0.3	0.4	0.3	0.1	0.1	0.1	0.1
29	0.2	0.4	0.4	0.7		0.4	0.4	0.3	0.1	0.2	0.1	0.1
30	0.2	0.4	0.4	0.6		0.4	0.4	0.3	0.1	0.2	0.1	0.1
31	0.2		0.4	0.6		0.4		0.3		0.2	0.1	
	8.8	18.6	14.7	14.2	11.1	9.6	10.7	9.9	6.1	3.4	4.0	3.9
MEAN	0.28	0.62	0.47	0.46	0.40	0.31	0.36	0.32	0.20	0.11	0.13	0.13
ACRE-FEET	17.	37.	29.	28.	22.	19.	21	20.	12.	6.7	7.9	7.7

Remarks:

YEAR OR PERIOD MEAN 0.32
ACRE-FEET 227.

160714M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No.

Daily discharge, in second-feet of SAN ANTONIO CREEK and SOUTHERN CALIFIRNIA EDISON CO'S CONDUIT near Claremont, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	4.9	4.8	5.7	5.6	5.5	5.2	4.9	4.8	4.4	3.8	3.6	3.3
2	4.9	4.8	5.7	5.6	5.5	5.2	5.0	4.7	4.4	3.8	3.6	3.3
3	4.8	5.6	5.7	5.6	5.2	5.2	4.8	4.7	4.2	3.8	3.6	3.3
4	4.8	5.6	5.7	5.6	5.2	5.2	4.8	4.7	4.2	3.8	3.7	3.3
5	4.6	6.1	5.7	5.6	5.3	5.2	4.8	4.7	4.2	3.8	3.6	3.3
6	4.6	7.9	5.9	5.6	5.3	5.1	5.0	4.7	4.2	3.8	3.6	3.3
7	4.8	6.1	5.9	5.6	5.2	5.1	5.0	4.7	4.2	3.5	3.4	3.3
8	4.9	6.0	5.9	5.6	5.2	5.1	4.8	4.4	4.2	3.5	3.4	3.3
9	5.3	5.9	5.9	5.3	5.2	5.1	4.7	4.4	4.2	3.5	3.5	3.4
10	5.7	5.5	5.9	5.3	5.2	5.1	4.7	4.4	4.1	3.5	3.5	3.4
11	5.4	5.4	5.9	5.3	5.2	5.2	4.7	4.7	4.1	3.5	3.5	3.3
12	5.0	6.2	5.9	5.3	5.2	5.2	4.7	4.7	4.1	3.5	3.5	3.3
13	5.0	6.0	5.9	5.3	5.2	5.2	4.7	4.4	4.1	3.5	3.3	3.3
14	4.8	5.8	5.9	5.3	5.2	5.2	4.7	4.4	4.1	3.5	3.3	3.3
15	4.8	5.8	5.9	5.3	5.2	5.2	4.7	4.5	4.1	3.5	3.3	3.3
16	4.8	5.8	5.9	5.3	5.2	5.2	4.7	4.5	3.9	3.5	3.3	3.3
17	4.7	5.8	5.9	5.3	5.2	5.2	4.7	4.5	3.9	3.5	3.3	3.3
18	4.7	5.7	5.9	5.3	5.2	5.2	4.7	4.5	3.9	3.5	3.3	3.3
19	4.3	5.7	5.7	5.3	5.2	5.2	4.7	4.5	3.9	3.5	3.3	3.5
20	4.7	5.7	5.7	5.3	5.2	4.9	4.7	4.4	3.9	3.5	3.3	3.4
21	4.7	5.8	5.7	5.3	5.2	4.9	4.7	4.4	3.9	3.5	3.3	3.6
22	4.6	5.8	5.7	5.3	5.1	4.9	4.6	4.4	3.9	3.5	3.3	3.6
23	4.6	5.8	5.7	5.3	5.1	4.9	4.8	4.4	3.8	3.5	3.3	3.6
24	4.6	6.0	5.7	5.3	5.1	5.1	4.8	4.4	3.8	3.5	3.3	3.4
25	4.6	6.0	5.7	5.3	5.1	5.1	4.8	4.4	3.8	3.5	3.3	3.4
26	4.6	6.2	5.7	7.2	5.1	5.1	4.8	4.4	3.8	3.5	3.3	3.4
27	4.8	5.9	5.7	5.9	5.2	5.1	4.8	4.4	3.8	3.5	3.3	3.3
28	4.8	5.8	5.7	5.9	5.2	5.1	4.8	4.4	3.8	3.5	3.3	3.3
29	4.8	5.7	5.6	5.8		5.2	4.8	4.4	3.8	3.6	3.3	3.3
30	4.8	5.7	5.6	5.8		4.9	4.8	4.4	3.8	3.6	3.3	3.3
31	4.8		5.6	5.6		4.9		4.4		3.6	3.3	
	149.2		179.0	145.9		143.4		120.5		105.0		
		174.9		171.1		158.4		139.7		110.6		100.5
MEAN	4.81	5.83	5.77	5.52	5.21	5.11	4.78	4.51	4.02	3.57	3.39	3.35
ACRE-FEET	296.	347.	355.	339.	289.	314.	284.	277.	239.	219.	208.	199.

Remarks:

YEAR OR PERIOD MEAN 4.65
ACRE-FEET 3370.

STATION F323-R
SAN ANTONIO CREEK above Stoddard Canyon

LOCATION: WATER STAGE RECORDER. LAT. 34°10'40", LONG. 117°40'30", ON THE DOWNSTREAM SIDE OF BRIDGE, CAMP BALDY ROAD, 1.4 MILES ABOVE SAN ANTONIO DAM. ELEVATION OF ZERO GAGE HEIGHT 2465 FEET.

DRAINAGE AREA: 22.2 SQUARE MILES.

CHANNEL AND CONTROL: NATURAL, ROCKY, BOULDERS AND GRAVEL. CONTROL IS A CONCRETE AND RUBBLE WALL 82 FEET LONG 13.5 FEET BELOW STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CAT-WALK ON UPSTREAM SIDE OF BRIDGE.

RECORDER: AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSIONS: THERE ARE DIVERSIONS FOR IRRIGATION AND POWER DEVELOPMENT.

RECORDS AVAILABLE: AT STATION F151-R, FEBRUARY 20, 1931 TO MARCH 31, 1955 AND AT STATION F323-R, FEBRUARY 1, 1956 TO SEPTEMBER 30, 1961. NO RECORD FROM MARCH 31, 1955 TO FEBRUARY 1, 1956 DUE TO SAN ANTONIO DAM CONSTRUCTION.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 9.1 SECOND-FEET ESTIMATED APRIL 27.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM + FLOW PART OF YEAR.
MINIMUM NO FLOW MOST OF YEAR.
1930-61
MAXIMUM 23,400 SECOND-FEET ESTIMATED MARCH 2, 1938 AT STATION F151-R.
MINIMUM NO FLOW FOR SEVERAL MONTHS EACH YEAR.

ACCURACY: POOR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F323-R

Daily discharge, in second-feet of SAN ANTONIO CREEK above Stoddard Canyon, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0				
2	0	0	0	0	0	0	0	0				
3	0	0	0	0	0	0	0	0				
4	0	0	0	0	0	0	0	0				
5	0	0	0	0	0	0	0	0				
6	0	0	0	0	0	0	0	0				
7	0	0	0	0	0	0	0	0				
8	0	0	0	0	0	0	0	0				
9	0	0	0	0	0	0	0	0				
10	0	0	0	0	0	0	0	0				
11	0	0	0	0	0	0	0	0				
12	0	0	0	0	0	0	0	0				
13	0	0	0	0	0	0	0	0				
14	0	0	0	0	0	0	0	0				
15	0	0	0	0	0	0	0	0				
16	0	0	0	0	0	0	0	0				
17	0	0	0	0	0	0	0	0				
18	0	0	0	0	0	0	0	0				
19	0	0	0	0	0	0	0	0				
20	0	0	0	0	0	0	0	0				
21	0	0	0	0	0	0	0	0				
22	0	0	0	0	0	0	0	0				
23	0	0	0	0	0	0	0	0				
24	0	0	0	0	0	0	0	0				
25	0	0	0	0	0	0	0	0				
26	0	0	0	0	0	0	0	0				
27	0	0	0	0	0	0	0.1	0				
28	0	0	0	0	0	0	3.6	0				
29	0	0	0	0	0	0	0.9	0				
30	0	0	0	0	0	0	+	0				
31	0		0	0		0						
	0	0	0	0	0	0	4.6	E 0	E 0	E 0	E 0	E 0
MEAN	0	0	0	0	0	0	0.15	E 0	E 0	E 0	E 0	E 0
ACRE-FEET	0	0	0	0	0	0	9.1	E 0	E 0	E 0	E 0	E 0

RECORDER STOPPED FOR SUMMER

Remarks:

YEAR OR PERIOD MEAN 0.01
ACRE-FEET 9.1

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F323-R

Daily discharge, in second-feet of SAN ANTONIO CREEK above Stoddard Canyon, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	+	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	+	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	+	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	+	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	+	0	0	0	0	0	0
25	0	0	0	0	0	+	0	0	0	0	0	0
26	0	+	0	+	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	+	+	0	+	0	+	0	0	0	0	0	0
MEAN	+	+	0	+	0	+	0	0	0	0	0	0
ACRE-FEET	+	+	0	+	0	+	0	0	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN +
ACRE-FEET +

STATION F332-R
SAN ANTONIO WATER COMPANY DIVERSION
near Ontario No. 1 Power House

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'23", LONG. 117°40'32", ON THE RIGHT (NORTH) BANK OF THE DIVERSION CHANNEL ABOVE WATER COMPANY'S DISTRIBUTION BOX AT ONTARIO NO. 1 POWER HOUSE.

CHANNEL AND CONTROL: CHANNEL, RECTANGULAR CONCRETE 10 FEET WIDE AND 46 INCHES DEEP. CONTROL IS WIDE CRESTED WEIR BUILT INTO CHANNEL.

DISCHARGE MEASUREMENTS: MEASUREMENTS MADE ABOVE WEIR.

RECORDER: A STEVENS TYPE "F" RECORDER IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW CAN BE REGULATED BY DIVERSION GATES AT SAN ANTONIO CREEK.

RECORDS AVAILABLE: FEBRUARY 4, 1957 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 2.3 SECOND-FEET APRIL 28.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM NO FLOW ENTIRE YEAR.
MINIMUM NO FLOW ENTIRE YEAR.
1957-61
MAXIMUM 28 SECOND-FEET JANUARY 7, 1958.
MINIMUM NO FLOW AT VARIOUS TIMES EACH YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

75DT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F332-R

Daily discharge, in second-feet of SAN ANTONIO WATER CO. DIVERSION near Ontario No. 1 Power House, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0.9	0	0	0	0	0
29	0	0	0	0	0	0	0.5	0	0	0	0	0
30	0	0	0	0	0	0	+	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		0		0		1.4		0		0	
		0		0		0		0		0		0
MEAN	0	0	0	0	0	0	.05	0	0	0	0	0
ACRE-FEET	0	0	0	0	0	0	2.8	0	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN +
ACRE-FEET 2.8

74DT4M Cib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F332-R

Daily discharge, in second-feet of SAN ANTONIO WATER COMPANY DIVERSION CANAL near Ontario No. 1 Power House, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0
ACRE-FEET	0	0	0	0	0	0	0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0
ACRE-FEET 0

STATION F303-R
SAN DIMAS CREEK below San Dimas Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'11", LONG. 117°45'55", ON THE LEFT (EAST) BANK OF SAN DIMAS CREEK, 1000 FEET BELOW SAN DIMAS DAM. ELEVATION OF ZERO GAGE HEIGHT 1331.02.

DRAINAGE AREA: 16.2 SQUARE MILES.

CHANNEL AND CONTROL: NATURAL CHANNEL. A CONCRETE CONTROL INSTALLED BELOW STATION TO KEEP LOW FLOW AT LEFT BANK.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM CABLE CAR 25 FEET ABOVE STATION.

RECORDER: AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW REGULATED BY SAN DIMAS DAM AND PARTIALLY BY OLD WATER TUNNEL 150 FEET ABOVE STATION.

RECORDS AVAILABLE: DECEMBER 24, 1951 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 5.9 SECOND-FEET AUGUST 25.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 20 SECOND-FEET AUGUST 1.
MINIMUM PLUS FLOW AT VARIOUS TIMES.
1951-61
MAXIMUM 270 SECOND-FEET APRIL 3, 1958.
MINIMUM NO FLOW AT TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F303-R

Daily discharge, in second-feet of SAN DIMAS CREEK below San Dimas Dam, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.03	0.3	+	0.03	a 0.03	0.03	0.05	0.1	4.8	0.3	+	+
2	0.03	0.3		0.03	0.03	0.03	0.05	0.1	4.5	0.3		+
3	0.03	0.3		0.03	0.03	0.03	0.05	0.1	4.5	0.3		+
4	0.03	0.3		0.02	0.04	+	0.05	0.05	4.5	0.3		0.5
5	0.03	0.3		0.02	0.04		0.05	0.05	4.5	0.3	+	0.4
6	0.03	0.3		0.02	0.04		0.1	0.03	4.1	0.3	0.03	0.2
7	0.03	0.3		0.02	0.04		0.1	0.03	4.1	0.3	0.03	0.2
8	0.03	0.4		0.02	0.04		0.1	+	4.1	0.3	0.03	0.2
9	0.1	0.4		0.02	0.04	+	0.1	0.03	4.1	0.3	0.03	0.2
10	0.3	0.03		0.02	0.04	0.03	0.1	+	4.1	0.2	0.03	0.2
11	0.3	0.03		0.03	0.03	0.05	0.1	+	4.1	0.2	+	0.2
12	0.3	0.03		0.05	0.03	0.05	0.1	2.1	4.1	0.2	+	0.03
13	0.3	0.03		0.05	0.03	0.05	0.1	3.2	1.5	0.2	0.03	0.05
14	0.3	0.03		0.05	0.03	0.03	0.1	3.2	0.2	0.2	0.03	+
15	0.3	0.03		0.03	0.03	+	2.6	3.2	0.3	0.2	0.03	0.05
16	0.3	0.03		0.03	0.03	+	3.8	3.2	0.3	0.2	0.03	+
17	0.3	0.03		0.03	0.03	0.03	3.8	3.1	0.2	0.2	0.03	0
18	0.3	0.03		0.05	? 0.03	0.05	4.0	3.2	0.2	0.2	0.03	0.05
19	0.2	0.03		0.03	0.03	0.05	4.0	3.4	0.2	0.2	0.3	0.03
20	0.2	0		0.03	0.03	0.05	4.0	3.2	0.2	1.0	1.0	0.03
21	0.2	0	+		0.03	0.05	4.5	3.2	0.2	3.2	1.0	0.03
22	0.2	0		0.03	0.03	0.05	5.3	3.4	0.2	1.2	1.0	0.03
23	0.2	0	+	0.03	0.03	0.05	5.3	3.2	0.3	1.2	1.0	0.2
24	0.2	0	0.02	0.03	0.03	0.05	5.0	3.2	0.3	0.4	3.6	+
25	0.2	0	0.03	0.05	0.05	0.05	5.0	3.2	0.3	0.03	5.9	+
26	0.2	0	0.03	0.1	0.05	0.05	5.0	3.1	0.3	0.03	5.9	+
27	0.2	0	0.03	0.05	0.03	0.05	5.3	4.7	0.3	0.03	3.0	0.03
28	0.2	0	0.03	0.03	0.03	0.05	1.8	5.6	0.3	0.03	0.4	0.03
29	0.2	0	0.03	0.03	0.03	0.05	0.1	5.3	0.3	0.03	0.5	+
30	0.3	0	0.03	0.03		0.03	0.1	5.0	0.3	0	1.6	0.1
31	0.3		0.03	0.03		0.05		5.0		0	0.2	
	5.84		0.23	0.98		60.7		57.4		25.7		
		3.20		1.02		1.01		73.2		11.9		2.76
MEAN	0.19	0.11	0.01	0.03	0.03	.03	2.02	2.36	1.91	0.38	0.83	0.09
ACRE-FEET	12.	6.3	0.5	2.0	1.9	2.0	12.0	145.	114.	24.	51.	5.5

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.67
ACRE-FEET 484.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F303-R

Daily discharge, in second-feet of SAN DIMAS CREEK below San Dimas Dam, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.01	0.01	0.03	0.02	0.06	0.02	0.08	0.07	0.1	0.08	7.5	0.1
2	0.01	0.02	0.03	0.02	0.06	0.04	0.07	0.05	0.1	0.1	3.6	0.1
3	0.01	0.02	0.03	0.02	0.06	0.04	0.06	0.07	0.1	2.2	0.1	0.05
4	0.01	0.02	0.04	0.02	0.06	0.04	0.06	0.07	0.1	4.3	0.2	0.05
5	0.01	0.03	0.04	0.02	0.07	0.04	0.06	0.07	0.1	4.1	0.2	0.03
6	0.01	0.03	0.04	0.02	0.06	a 0.04	0.06	0.07	0.1	4.1	0.2	0.03
7	0.01	0.03	0.04	0.02	0.07	0.04	0.07	0.07	0.1	a 3.9	0.2	0.03
8	0.01	0.03	0.04	0.02	0.07	0.04	0.06	0.07	0.1	3.8	0.2	0.03
9	0.01	0.03	0.04	0.02	0.08	a 0.04	0.05	0.07	0.1	3.8	0.2	0.03
10	0.01	0.03	0.04	0.02	0.08	0.05	0.05	0.07	0.1	a 3.8	0.2	0.03
11	0.01	0.03	0.04	0.04	0.08	0.04	0.05	0.07	0.1	4.3	0.2	0.03
12	0.01	0.02	0.04	0.04	0.08	0.04	0.05	0.07	0.1	a 5.8	0.1	0.05
13	0.01	0.02	0.03	0.04	0.08	0.04	0.05	0.07	0.1	5.8	0.1	0.1
14	0.01	0.02	0.03	0.02	0.08	0.05	0.05	0.07	0.1	4.0	0.2	0.1
15	0.01	0.02	0.03	a 0.02	0.08	0.06	0.05	0.07	0.1	0.2	0.2	0.1
16	0.01	0.02	0.03	0.02	0.07	0.04	0.05	0.07	0.1	0.2	0.2	0.1
17	0.01	0.02	0.03	0.02	0.07	0.04	0.06	0.07	0.1	4.6	0.2	0.1
18	0.01	0.02	0.04	0.02	0.07	0.05	0.07	0.07	0.1	15.6	0.1	0.05
19	0.01	0.02	0.04	a 0.02	0.07	0.04	0.08	0.08	0.1	17.1	0.1	0.05
20	0.01	0.03	0.04	0.02	0.07	0.04	0.07	0.08	0.1	15.2	0.05	0.05
21	0.01	0.03	0.04	0.02	0.07	0.05	0.07	0.08	0.1	12.1	0.05	0.05
22	0.01	0.03	0.04	0.02	0.06	0.04	0.07	0.08	0.1	0.1	0.1	0.05
23	0.01	0.03	0.05	0.02	0.06	0.04	0.08	0.08	0.1	0.1	0.05	0.05
24	0.01	0.03	0.05	0.02	0.06	0.06	0.07	0.1	0.08	0.1	0.2	0.05
25	0.01	0.03	0.04	0.02	0.06	0.06	0.08	0.1	0.08	0.1	0.2	0.05
26	0.01	0.03	0.04	0.09	0.06	0.05	0.08	0.1	0.07	0.1	0.2	0.05
27	0.01	0.03	0.04	0.07	0.05	0.05	0.06	0.1	0.07	0.1	0.2	0.05
28	0.01	0.03	0.04	0.06	0.04	0.05	0.07	0.1	0.06	0.1	0.2	0.05
29	0.01	0.03	0.04	0.06		0.05	0.08	0.1	0.06	0.1	0.2	0.05
30	0.01	0.03	0.02	0.06		0.1	0.08	0.1	0.07	0.1	0.2	0.05
31	0.01		0.02	0.06		0.1		0.1		0.1	0.2	
	0.31		1.14	1.88		1.94		2.79		15.85		
		0.77		0.96		1.48		2.44		116.08		1.71
MEAN	0.01	0.03	0.04	0.03	0.07	0.05	0.06	0.08	0.09	3.74	0.51	0.06
ACRE-FEET	0.6	1.5	2.3	1.9	3.7	2.9	3.8	4.8	5.5	230.	31.	3.4

Remarks:

YEAR OR PERIOD MEAN 0.40
ACRE-FEET 291.

STATION F218-R

SAN DIMAS WASH below Puddingstone Diversion Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°07'52", LONG. 117°46'58", ON SAN DIMAS TYPE FLUME ABOUT 75 FEET WEST OF THE SOUTHERLY END OF PUDDINGSTONE DIVERSION DAM ABOUT 3.0 MILES NORTHWEST OF LA VERNE. ELEVATION OF ZERO GAGE HEIGHT, 1126.86 FEET.

DRAINAGE AREA: 18.8 SQUARE MILES. 16.2 SQUARE MILES CONTROLLED BY SAN DIMAS DAM AND 2.6 SQUARE MILES CONTROLLED BY PUDDINGSTONE DIVERSION DAM.

CHANNEL AND CONTROL: CHANNEL - SAND AND GRAVEL.
CONTROL - 3 FEET X 3 FEET SAN DIMAS TYPE FLUME.

DISCHARGE MEASUREMENTS: LOW AND HIGH FLOWS MEASURED BY WADING.

RECORDER: A STEVENS TYPE L RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION AND/OR DIVERSIONS: FLOW ENTIRELY REGULATED BY PUDDINGSTONE DIVERSION DAM. SPILLWAY DISCHARGE ENTERS WASH BELOW THE STATION. PUDDINGSTONE CHANNEL DIVERTS FLOW TO PUDDINGSTONE DAM. INFLOW TO PUDDINGSTONE DIVERSION DAM IS REGULATED BY SAN DIMAS DAM, SAN DIMAS WATER COMPANY AND SAN DIMAS LAND AND WATER COMPANY DIVERTS WATER BELOW SAN DIMAS DAM FOR IRRIGATION.

RECORDS AVAILABLE: NOVEMBER 28, 1945 TO SEPTEMBER 30, 1961. SOME STREAM MEASUREMENTS FOR EARLIER YEARS ARE AVAILABLE.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM NO FLOW ENTIRE SEASON
MINIMUM NO FLOW ENTIRE SEASON
1960-61
MAXIMUM 15 SECOND-FEET JULY 21-22.
MINIMUM NO FLOW MOST OF YEAR.
1945-61
MAXIMUM 42 SECOND-FEET APRIL 4, 1946.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: EXCELLENT.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

75D74M C4b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F218-R

Daily discharge, in second-feet of SAN DIMAS WASH below Puddingstone Diversion Dam for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0.7	0
2	0	0	0	0	0	0	0	0	0	0	3.3	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	3.5	0	0
19	0	0	0	0	0	0	0	0	0	5.4	0	0
20	0	0	0	0	0	0	0	0	0	7.8	0	0
21	0	0	0	0	0	0	0	0	0	14.4	0	0
22	0	0	0	0	0	0	0	0	0	1.4	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		0		0		0		0		4.0	
		0		0		0		0		32.5		0
MEAN	0	0	0	0	0	0	0	0	0	1.05	0.13	0
ACRE-FEET	0	0	0	0	0	0	0	0	0	64.	7.9	0

Remarks:

YEAR OR PERIOD MEAN 0.10
ACRE-FEET 72.

STATION F209-R
SAN GABRIEL RIVER - WEST FORK below Cogswell Dam

LOCATION: WATER-STAGE RECORDER. LAT. 34°14'39", LONG. 117°57'25", ON THE LEFT (NORTHEAST) BANK OF THE WEST FORK OF THE SAN GABRIEL RIVER ABOUT SEVEN MILES AFOVE JUNCTION OF THE EAST AND WEST FORKS AND 0.5 MILE DOWNSTREAM FROM COGSWELL DAM. ELEVATION OF ZERO GAGE HEIGHT, 2083.37 FEET.

DRAINAGE AREA: 41.0 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND BOULDERS.
CONTROL - CONCRETE CONTROL WITH LOW FLOW NOTCH ABOUT 35 FEET BELOW THE STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR SIX FEET BELOW STATION.

RECORDER: AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: 40.4 SQUARE MILES REGULATED BY COGSWELL DAM. 0.6 SQUARE MILES UNREGULATED.

DIVERSIONS: NONE.

RECORDS AVAILABLE: MAY 26, 1932 TO DECEMBER 8, 1933 STREAM MEASUREMENTS ONLY. RECORDER RECORDS DECEMBER 8, 1933 TO FEBRUARY 21, 1938; MARCH 10, 1838 TO MAY 30, 1938, AND JULY 8, 1938 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 260 SECOND-FEET JANUARY 29.
MINIMUM 0.1 SECOND-FOOT AT VARIOUS TIMES, OCTOBER THROUGH JANUARY.
1960-61
MAXIMUM 336 SECOND-FEET JANUARY 11.
MINIMUM 0.1 SECOND-FOOT VARIOUS DAYS.
1933-61
MAXIMUM 25,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM LESS THAN 0.1 SECOND-FOOT AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT FOR MEASURING OUTFLOW FROM COGSWELL DAM.

76D74M Glb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F209-R

Daily discharge, in second-feet of SAN GABRIEL RIVER - WEST FORK below Cogswell Dam, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.3	0.1	0.1	0.1	1.0	0.9	0.9	0.9	1.4	9.2	12.0	2.7
2	5.3	0.1	0.1	0.1	0.8	0.8	0.9	0.9	1.5	12.0	11.0	2.7
3	5.1	0.1	0.1	0.1	0.7	0.8	0.9	0.9	1.5	12.0	11.0	2.7
4	5.1	0.1	0.1	0.1	0.7	0.8	0.9	0.9	1.6	12.0	11.0	2.7
5	5.1	0.1	0.1	0.1	0.7	0.8	0.9	0.9	1.7	12.0	11.0	2.7
6	5.1	0.1	0.1	0.1	0.7	0.8	0.9	0.9	1.7	13.0	11.0	2.7
7	5.3	0.1	0.1	0.1	0.7	0.8	0.9	0.9	1.7	13.0	11.0	2.7
8	5.1	0.1	0.1	0.1	0.8	0.8	0.9	1.2	1.6	13.0	11.0	2.7
9	5.1	0.1	0.1	0.1	0.9	0.8	0.9	1.2	1.6	12.0	11.0	2.7
10	5.1	0.1	0.1	1.0	0.8	0.8	0.9	1.2	1.6	12.0	11.0	2.7
11	5.1	0.1	0.1	0.3	0.8	0.9	0.8	1.4	1.6	12.0	11.0	2.8
12	5.1	0.1	0.1	0.6	0.7	0.9	0.8	1.5	1.5	12.0	9.7	2.7
13	4.9	0.1	0.1	0.4	0.6	0.9	0.8	1.6	1.5	12.0	9.9	2.7
14	4.7	0.1	0.1	0.4	0.6	0.9	0.8	1.6	1.5	12.0	9.9	2.7
15	4.7	0.1	0.1	0.4	0.6	0.9	0.8	1.6	1.4	13.0	9.9	2.7
16	4.7	0.1	0.1	0.4	0.6	0.9	0.8	1.5	1.4	13.0	10.0	2.7
17	4.7	0.1	0.1	0.4	0.6	0.9	0.8	1.5	1.4	12.0	10.0	2.7
18	4.6	0.1	0.1	0.4	0.6	0.9	0.9	1.5	1.4	12.0	10.0	2.5
19	4.6	0.1	0.1	0.4	0.6	0.9	0.9	1.5	1.4	12.0	9.9	2.5
20	4.6	0.1	0.1	0.4	0.6	0.9	0.9	1.5	1.5	12.0	9.9	2.3
21	4.4	0.1	0.1	0.4	0.6	0.8	0.9	1.5	1.5	12.0	9.3	2.3
22	4.4	0.1	0.1	0.4	0.6	0.8	0.9	1.5	1.5	12.0	7.0	1.7
23	4.4	0.1	0.1	0.5	0.7	0.8	0.9	1.4	1.5	12.0	6.0	0.9
24	4.2	0.1	0.3	0.5	0.7	0.8	0.9	1.4	1.5	12.0	6.0	0.9
25	1.5	0.1	a 0.1	0.6	0.7	0.8	0.9	1.4	1.5	12.0	6.0	0.9
26	0.1	0.1	0.1	0.6	0.7	0.8	0.9	1.4	1.5	12.0	6.0	0.8
27	0.1	0.1	0.1	0.6	0.7	0.9	2.0	1.4	1.5	12.0	5.8	0.8
28	0.1	0.1	0.1	0.6	0.8	1.0	1.2	1.4	1.4	12.0	5.8	0.7
29	0.1	0.1	a 0.1	5.6	1.3	1.0	1.0	1.4	1.4	12.0	5.6	0.6
30	0.1	0.1	0.1	0.6		0.9	0.9	1.4	1.4	12.0	4.2	0.9
31	0.1		0.1	0.6		0.9		1.4		12.0	2.7	
	1188	3.0	3.3	17.0	20.9	26.6	27.8	40.7	45.2	374.2	276.2	63.8
MEAN	3.83	0.10	0.11	0.55	0.72	0.86	0.93	1.31	1.51	12.1	8.91	2.13
ACRE-FEET	236.	6.	7.	34.	41.	53.	55.	81.	90.	742.	548.	127.

Remarks:

YEAR OR PERIOD MEAN 2.78
ACRE-FEET 2020.

7AD74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F209-R

Daily discharge, in second-feet of SAN GABRIEL RIVER - WEST FORK below Cogswell Dam, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.4	0.1	0.1	0.3	0.5	5.6	0.5	0.9	0.8	0.9	0.7	0.7
2	1.4	0.1	0.1	0.3	0.5	4.0	0.5	0.9	0.8	0.9	0.7	0.8
3	1.3	0.5	0.1	0.3	0.5	0.5	0.5	0.9	0.8	0.8	0.7	0.8
4	1.0	0.1	0.1	0.4	0.5	0.5	0.5	0.9	0.8	0.8	0.8	0.8
5	1.0	0.4	0.1	0.4	0.5	0.5	0.5	0.9	0.8	0.8	0.8	0.7
6	1.0	0.2	0.1	0.4	0.6	0.5	0.6	0.9	0.8	0.8	0.8	0.8
7	0.8	0.1	0.1	0.4	0.6	0.5	0.6	0.9	0.8	0.8	0.7	0.7
8	0.8	0.1	0.1	0.4	0.6	0.5	0.6	0.9	0.9	0.8	0.7	0.7
9	0.9	0.1	0.1	0.4	0.6	0.5	0.6	0.8	0.9	0.8	0.7	0.7
10	0.9	0.1	0.1	0.4	0.6	0.5	0.6	0.8	0.9	0.8	0.7	0.7
11	0.6	0.1	0.1	4.3	0.6	0.5	0.6	0.8	0.9	0.8	0.7	0.7
12	0.4	0.2	0.1	1.3	0.6	0.5	0.6	0.8	0.8	0.8	0.6	0.7
13	0.8	0.2	0.2	1.3	0.6	0.5	0.6	0.8	0.8	0.8	0.6	0.7
14	1.2	0.1	0.2	1.2	0.6	0.5	0.6	0.8	0.8	0.7	0.6	0.7
15	0.9	0.1	0.2	1.2	0.6	0.6	0.6	0.8	0.7	0.7	0.6	0.7
16	0.8	0.1	0.3	1.2	0.6	0.5	0.6	0.8	0.7	0.6	0.6	0.7
17	0.8	0.1	0.3	1.6	0.6	0.5	0.6	0.8	0.8	0.7	0.6	0.7
18	0.8	0.1	0.4	2.2	0.6	0.5	0.6	0.8	0.8	0.7	0.7	0.7
19	0.6	0.1	0.4	2.2	0.6	0.5	0.6	0.8	0.7	0.7	0.7	0.7
20	0.5	0.1	0.4	2.2	1.7	0.4	0.7	0.8	0.8	0.7	0.7	0.7
21	0.4	0.1	0.4	2.2	2.8	0.4	0.8	0.8	0.8	0.8	0.6	0.7
22	0.3	0.1	0.4	2.2	2.7	0.4	0.8	0.9	0.8	0.8	0.6	0.8
23	0.3	0.1	0.4	2.2	2.7	0.4	0.9	0.9	0.9	0.8	0.7	0.7
24	0.3	0.1	0.4	2.2	3.7	0.5	0.8	0.9	0.9	0.7	0.7	0.6
25	2.9	0.1	0.4	2.3	5.3	0.6	0.8	0.9	0.9	0.6	0.8	0.6
26	0.5	0.2	0.4	3.8	5.3	0.6	0.8	0.9	0.9	0.6	0.8	0.7
27	0.1	0.1	0.4	2.7	5.6	0.5	0.8	0.9	0.9	0.7	0.7	0.6
28	0.1	0.1	0.4	2.7	5.6	0.5	0.8	0.9	0.9	0.7	0.7	0.5
29	0.1	0.1	0.3	2.7		0.5	0.8	0.9	0.9	0.7	0.7	0.6
30	0.1	0.1	0.3	2.7		0.5	0.8	0.9	0.8	0.7	0.7	0.6
31	0.1		0.3	1.3		0.5		0.8		0.7	0.7	
	23.1	4.1	7.7	49.4	46.3	24.0	19.7	26.5	24.8	23.2	21.4	20.8
MEAN	0.75	0.14	0.25	1.59	1.65	0.77	0.66	0.85	0.83	0.75	0.69	0.69
ACRE-FEET	46.	8.1	15.	98.	92.	48.	39.	53.	49.	46.	42.	41.

Remarks:

YEAR OR PERIOD MEAN 0.80
ACRE-FEET 577.

STATION P3-R
SAN GABRIEL RIVER - WEST FORK above Forks

LOCATION: WATER-STAGE RECORDER. LAT. 34°14'30", LONG. 117°51'45", ON THE RIGHT (SOUTH) BANK, 0.2 MILE ABOVE RINCON RANGER STATION, 1.5 MILES ABOVE EAST FORK AND ABOUT 13.5 MILES NORTH OF AZUSA. ELEVATION OF ZERO GAGE HEIGHT, 1474.94 FEET.

DRAINAGE AREA: 102 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND BOULDERS.
CONTROL - CONCRETE DIP CROSSING ABOUT 100 FEET BELOW STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR 75 FEET BELOW STATION.

RECORDER: AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY COGSWELL DAM.

DIVERSIONS: NONE.

RECORDS AVAILABLE: DECEMBER 3, 1930 TO SEPTEMBER 30, 1961 FOR RECORDS PRIOR TO DECEMBER 3, 1930 AT THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT OFFICE FILED WITH STATION P1-R, SAN GABRIEL RIVER - WEST FORK 0.5 MILE ABOVE FORKS. RECORDS FROM JULY 12, 1938 TO SEPTEMBER 27, 1938 ARE FROM STATION P3B-R, SAN GABRIEL RIVER - WEST FORK, 400 FEET BELOW NORTH FORK.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 128 SECOND-FEET JANUARY 10.
MINIMUM 2.1 SECOND-FEET SEPTEMBER 10.
1960-61
MAXIMUM 447 SECOND-FEET NOVEMBER 5.
MINIMUM 0.9 SECOND FEET SEPTEMBER 5.
1930-61 (STATIONS P1-R, P3-R, P3B-R).
MAXIMUM 34,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM 0.3 SECOND-FOOT OCTOBER 17, 1931.

ACCURACY: GOOD.

OPERATION: MOVED FROM A PREVIOUS LOCATION BY THE DISTRICT FOR THE PASADENA WATER DEPARTMENT. THIS STATION WAS LATER TAKEN OVER, RECONSTRUCTED, AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BOARD.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. P3-R

Daily discharge, in second-feet of SAN GABRIEL RIVER – WEST FORK above Forks, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	11	7.2	7.2	9.8	22	34	13	16	8.0	5.9	13	4.5
2	12	6.9	7.6	9.8	43	25	12	15	7.2	13	13	4.3
3	12	6.9	8.0	9.5	27	21	12	16	7.2	13	13	4.1
4	11	6.9	8.0	9.1	24	19	11	15	7.6	13	14	4.4
5	9.8	6.9	8.0	9.1	20	18	11	14	8.0	14	13	4.7
6	9.5	6.9	8.0	9.1	18	18	11	13	8.4	14	13	5.3
7	9.5	6.5	8.0	9.5	17	19	11	13	8.0	14	13	5.0
8	9.5	6.5	8.4	9.5	18	19	12	12	7.6	14	12	4.7
9	9.5	6.5	8.7	9.5	22	18	12	11	7.2	14	12	4.4
10	9.8	6.5	8.7	48	21	17	11	10	7.2	14	12	4.1
11	9.8	6.5	8.4	34	20	16	11	11	6.9	14	12	3.7
12	9.8	6.5	7.6	40	19	16	11	11	6.5	14	12	4.6
13	9.8	6.5	7.6	22	18	15	10	10	5.9	14	13	4.2
14	8.7	6.5	7.6	21	18	15	10	11	5.6	13	13	4.3
15	8.4	6.9	8.0	22	17	15	9.5	13	5.6	13	13	4.5
16	8.4	7.2	8.4	19	17	15	8.7	13	5.3	13	13	4.7
17	7.6	7.2	8.4	18	17	15	8.4	12	5.3	13	13	4.7
18	7.2	6.9	8.4	17	17	15	8.4	12	5.0	13	12	4.4
19	8.0	6.9	8.4	16	17	14	8.4	10	4.7	13	12	4.4
20	9.5	6.9	8.7	16	17	14	8.0	9.8	4.4	13	12	4.1
21	9.5	6.9	11	15	16	14	8.0	9.8	4.1	14	11	3.8
22	9.1	6.5	9.8	16	16	13	9.5	9.5	4.4	14	11	3.8
23	8.4	6.5	9.8	18	16	14	11	9.8	4.4	13	9.0	3.8
24	8.4	6.9	19	18	15	14	11	9.8	4.7	13	9.0	3.1
25	8.0	7.2	18	22	15	14	10	9.8	4.4	13	9.1	2.9
26	6.9	7.2	14	26	15	14	10	9.5	4.4	13	8.4	2.9
27	6.9	7.2	11	22	15	15	38	9.1	4.4	13	8.4	2.7
28	6.9	7.2	10	20	15	18	40	8.7	4.4	13	8.0	2.7
29	6.9	7.2	10	20	28	15	23	8.4	4.1	13	7.7	2.9
30	6.9	7.2	10	17		14	18	8.4	3.8	13	7.0	3.1
31	7.2		9.8	16		14		8.4		13	5.2	
	275.9		294.5		560.0		387.9		174.7		346.8	
		205.7		567.9		517.0		349.0		406.9		120.8
MEAN	8.90	6.86	9.50	18.3	19.3	16.7	12.9	11.3	5.82	13.1	11.2	4.03
ACRE-FEET	547.	408.	584.	1130.	1110.	1030.	769.	692.	347.	807.	688.	240.

Remarks:

YEAR OR PERIOD MEAN 11.5
ACRE-FEET 8350.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

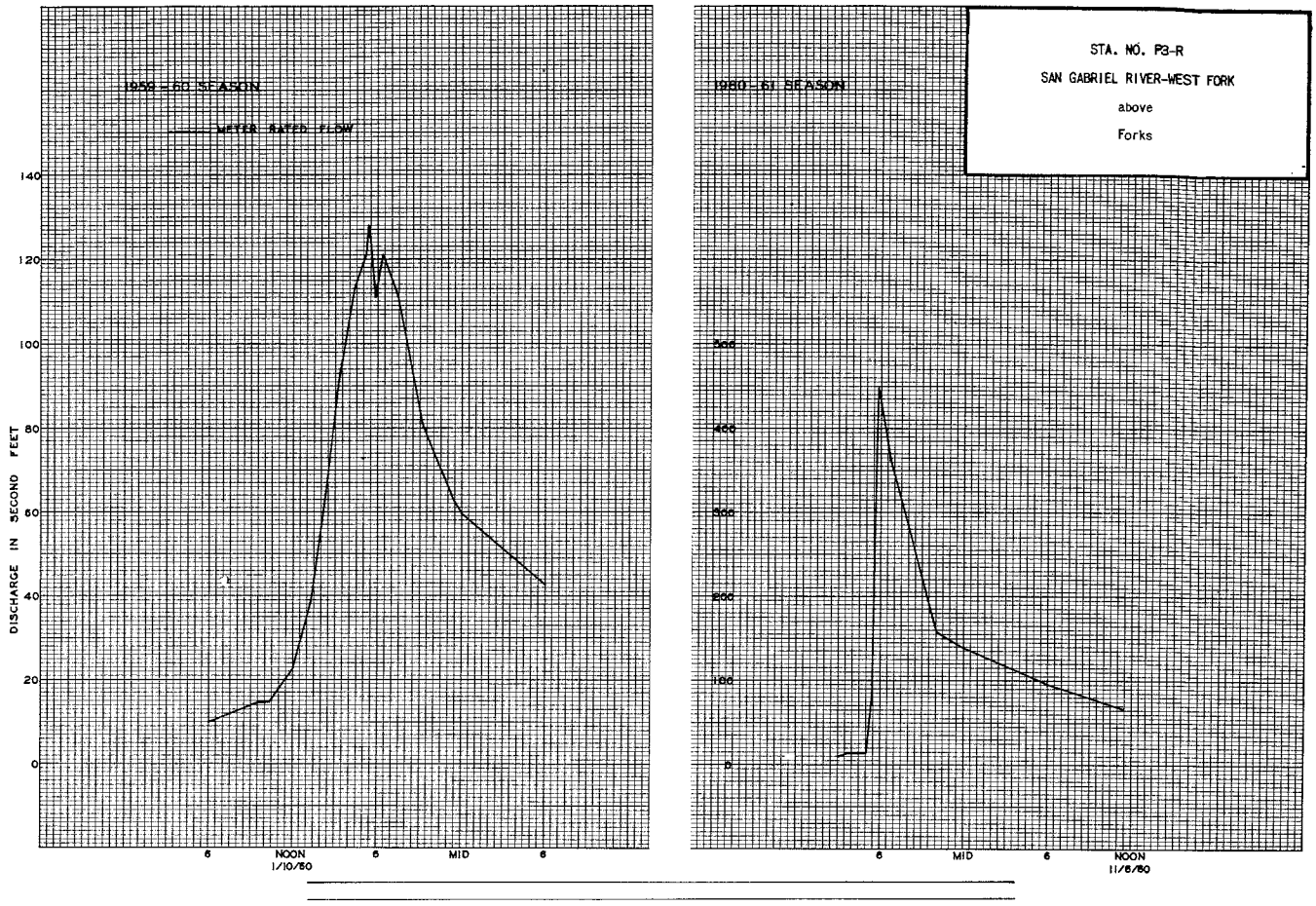
Sta. No. P3-R

Daily discharge, in second-feet of SAN GABRIEL RIVER – WEST FORK above Forks, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	3.3	3.3	v10	8.7	14	13	7.6	5.6	5.6	1.9	1.2	1.9
2	3.8	3.5	11	8.7	12	13	6.9	5.6	5.6	2.1	1.4	1.9
3	3.8	13	11	8.7	12	9.1	6.2	6.2	4.7	2.3	1.4	1.5
4	3.5	15	9.5	8.4	12	8.7	6.2	6.5	4.4	2.3	2.4	1.2
5	3.3	75	9.5	8.7	12	8.0	7.2	6.5	4.7	2.4	3.3	1.2
6	3.3	79	v 9.7	8.7	12	8.0	7.6	6.5	4.4	a 2.2	2.3	1.2
7	3.3	30	9.8	8.7	v11	7.6	8.0	6.5	4.4	a 2.0	1.9	1.2
8	3.5	v21	9.9	9.1	v11	7.6	7.2	6.2	4.4	a 1.7	1.9	1.5
9	6.9	15	9.8	9.1	v10	7.6	6.5	5.9	4.4	f 1.5	1.9	1.5
10	8.0	15	9.6	9.1	10	7.6	6.9	5.3	3.8	1.5	1.9	1.5
11	6.2	v15	9.4	11	9.8	8.0	6.9	5.3	3.5	1.5	1.9	1.4
12	5.3	36	9.2	11	9.5	8.0	6.9	5.3	3.5	1.7	1.7	1.4
13	4.7	27	9.4	11	9.1	8.0	7.2	5.3	3.3	1.7	1.5	1.4
14	4.4	v18	9.6	10	9.1	7.6	6.9	5.3	2.7	1.5	1.5	1.5
15	3.5	15	v 9.7	10	9.5	10	6.5	5.0	2.5	1.5	1.5	1.5
16	3.5	14	9.8	9.8	9.8	9.1	5.9	5.3	2.7	1.5	1.7	1.7
17	3.5	13	9.8	10	9.8	8.7	5.9	5.3	2.7	1.5	1.7	1.9
18	3.5	12	9.8	10	9.8	8.4	5.9	5.6	2.7	1.5	1.5	1.9
19	3.5	12	9.8	10	9.8	8.4	6.2	5.6	2.5	1.5	1.5	1.9
20	3.3	11	9.5	10	9.8	7.6	6.5	5.9	2.3	1.5	1.9	1.9
21	3.3	10	9.1	10	11	7.6	6.9	5.3	2.3	1.7	2.5	2.3
22	3.3	10	8.4	10	11	7.6	9.1	5.3	2.3	1.7	1.9	2.7
23	3.5	10	8.4	10	11	7.6	8.4	5.3	2.1	1.7	1.9	2.7
24	3.5	9.0	8.4	10	11	8.7	7.6	5.3	1.9	1.7	1.9	2.3
25	4.1	8.0	8.4	9.8	13	11	7.2	5.3	1.7	1.5	1.9	2.1
26	4.7	21	8.0	70	13	9.5	6.5	5.6	1.9	1.7	1.9	2.1
27	4.1	17	7.6	31	13	9.1	6.2	5.6	1.9	1.7	1.7	2.1
28	3.8	13	7.6	20	13	8.7	5.9	5.6	1.9	1.7	1.7	1.9
29	3.8	12	7.2	18		8.0	5.6	5.6	1.9	1.5	1.7	2.1
30	3.5	v11	7.6	17		7.6	5.3	5.6	1.9	1.4	1.9	1.9
31	3.3		8.4	16		7.6		5.3		1.2	1.9	
	125.0		284.9		308.0		203.8		94.6		56.9	
		563.8		412.5		267.0		174.5		52.8		53.3
MEAN	4.0	18.8	9.19	13.3	11.0	8.61	6.79	5.63	3.15	1.70	1.84	1.78
ACRE-FEET	248.	1120.	565.	820.	611.	530.	404.	346.	188.	105.	113.	106.

Remarks:

YEAR OR PERIOD MEAN 7.12
ACRE-FEET 5160.



STATION P4B-R
SAN GABRIEL RIVER - EAST FORK above Forks

LOCATION: WATER-STAGE RECORDER, LAT. 34°14'09", LONG. 117°48'18", ON THE RIGHT (NORTH) BANK ABOVE THE HIGH WATER LINE OF SAN GABRIEL DAM, 2.5 MILES ABOVE THE WEST FORK AND 8 MILES NORTHEAST OF GLENDORA. ELEVATION OF ZERO GAGE HEIGHT, 1567.04 FEET. FORMER STATION P4-R WAS ABOUT 0.6 MILE DOWNSTREAM.

DRAINAGE: 88.2 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND BOULDERS.
CONTROL - A CONCRETE CONTROL WITH A 20-FOOT LOW FLOW NOTCH WAS CONSTRUCTED IN NOVEMBER 1947. CONTROL HEIGHT INCREASED 2.0 FEET SEPTEMBER 1955.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM CABLE CAR 23 FEET ABOVE GAGE.

RECORDER: AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: AT STATION P4-R AND P4B-R, NOVEMBER 30, 1932 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 94 SECOND-FEET APRIL 28.
MINIMUM 4.4 SECOND-FEET SEPTEMBER 5 - 7.
1960-61
MAXIMUM 112 SECOND-FEET NOVEMBER 12.
MINIMUM 1.6 SECOND-FEET SEPTEMBER 4.
1932-61
MAXIMUM 46,000 SECOND-FEET MARCH 2, 1938 (COMPUTED BY GEOLOGICAL SURVEY.)
MINIMUM 1.6 SECOND-FEET SEPTEMBER 4, 1961.
NOTE - MINIMUM FLOW OF RECORD AS PREVIOUSLY SHOWN, (1.5 SECOND FEET ON OCTOBER 1, 1934) WAS FOUND TO BE IN ERROR. MINIMUM FLOW PRIOR TO 1960-61 WAS 1.7 SECOND-FEET AT VARIOUS TIMES IN SEPTEMBER, 1951.

ACCURACY: LOW FLOWS - GOOD; HIGH FLOWS - FAIR.

OPERATION: MOVED FROM A PREVIOUS LOCATION BY THE DISTRICT FOR THE PASADENA WATER DEPARTMENT. THE STATION WAS LATER TAKEN OVER, RECONSTRUCTED AND OPERATED BY THE DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCHES.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. PUB-R

Daily discharge, in second-feet of SAN GABRIEL RIVER - EAST FORK above Forks, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	13	14	12	14	24	34	23	33	19	9.3	7.6	5.0
2	13	14	11	13	39	30	21	35	19	8.9	7.2	5.4
3	12	14	10	13	33	29	20	36	19	8.9	6.7	5.0
4	12	12	12	13	30	28	20	36	19	8.9	6.3	5.0
5	12	11	11	13	27	26	20	35	18	8.9	6.3	4.7
6	12	10	11	12	25	26	20	34	18	8.9	6.3	4.4
7	12	9.9	11	12	24	26	20	33	18	8.9	6.3	4.7
8	11	9.9	12	12	27	26	20	33	18	8.9	6.3	5.0
9	11	9.9	12	12	33	26	20	34	17	8.9	6.3	5.0
10	11	10	12	22	31	26	20	32	16	8.9	6.3	5.4
11	10	10	12	23	29	26	20	31	15	8.9	6.3	5.4
12	10	11	12	30	27	25	20	30	15	8.4	6.3	5.4
13	10	11	12	21	26	25	19	30	15	8.4	5.9	5.4
14	9.9	12	11	20	24	26	19	30	14	8.0	5.9	5.0
15	9.9	12	11	22	23	26	19	30	15	7.6	5.9	5.4
16	9.9	12	11	20	22	26	18	29	15	7.2	6.3	5.9
17	9.3	11	11	18	22	24	17	28	14	6.7	5.9	5.9
18	8.9	11	11	17	23	24	15	27	14	6.7	5.9	5.9
19	9.3	11	11	17	25	24	17	26	14	6.7	5.0	5.9
20	9.5	11	12	16	23	24	16	25	13	6.7	5.0	5.4
21	9.9	11	14	16	22	23	15	24	12	8.0	5.0	5.4
22	9.9	10	13	17	21	23	20	24	12	8.0	5.9	5.9
23	8.9	10	12	20	21	23	22	25	12	8.0	6.3	5.9
24	9.3	10	17	20	20	23	21	25	12	7.6	6.3	5.4
25	9.9	11	20	25	20	23	19	24	11	7.6	5.9	5.0
26	10	10	17	35	20	23	18	21	10	7.2	5.9	4.7
27	10	11	15	30	20	23	38	20	10	6.7	5.9	5.0
28	10	12	14	27	21	26	62	20	10	6.3	5.9	5.0
29	9.9	12	14	25	31	25	42	20	10	6.7	5.9	5.9
30	11	12	14	22		25	36	20	10	7.2	5.4	5.9
31	12		14	21		24		20		7.6	5.0	
	326.9		392.0		733.0		677.0		434.0		187.4	
		335.7		598.0		788.0		870.0		245.6		159.3
MEAN	10.5	11.2	12.6	19.3	25.3	25.4	22.6	28.1	14.5	7.92	6.05	5.31
ACRE-FEET	648.	666.	778.	1190.	1450.	1560	1340.	1730.	861.	487.	372.	316.

Remarks:

YEAR OR PERIOD MEAN 15.7
ACRE-FEET 11400.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

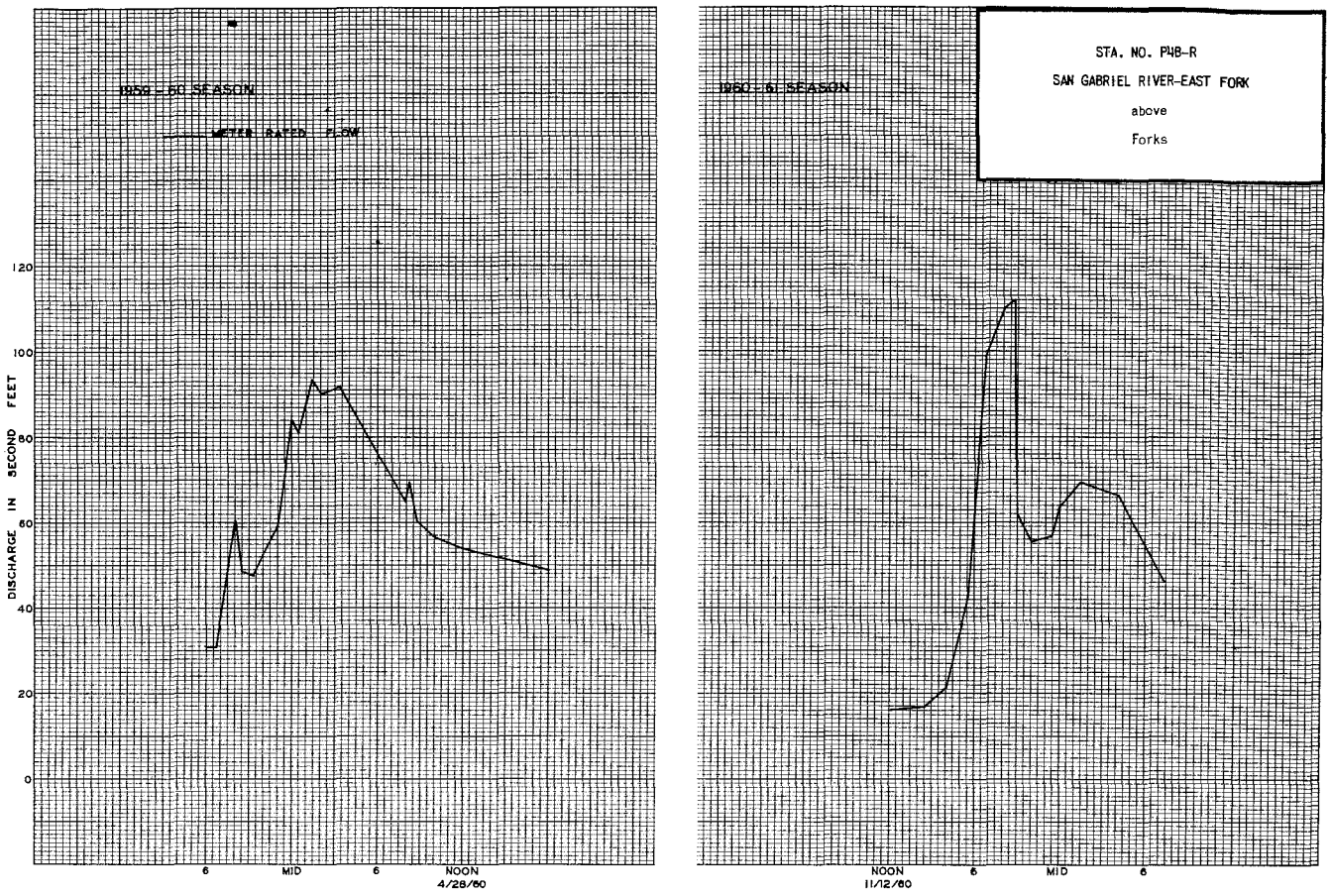
Sta. No. PUB-R

Daily discharge, in second-feet of SAN GABRIEL RIVER - EAST FORK above Forks, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.9	7.6	15	14	17	12	12	8.9	8.0	3.2	1.9	2.7
2	5.4	7.6	16	14	17	12	11	9.3	8.0	3.2	1.9	2.4
3	5.4	11	16	14	16	12	10	9.9	7.6	3.7	1.9	1.9
4	5.0	19	16	14	15	13	11	11	7.2	3.7	2.0	1.7
5	5.0	19	16	14	15	12	11	10	7.2	3.7	2.9	1.7
6	5.4	57	15	14	15	12	12	10	7.2	3.4	2.9	1.7
7	5.4	35	15	13	15	11	13	11	6.7	3.4	2.7	1.7
8	5.9	28	15	13	14	11	12	10	6.3	2.9	2.4	2.0
9	8.5	22	15	13	14	10	11	8.9	6.7	2.4	2.4	2.3
10	13	20	15	13	14	11	12	8.4	6.3	2.7	2.4	2.1
11	8.9	17	15	14	14	12	12	8.4	5.9	2.9	2.3	2.3
12	8.9	34	15	14	14	12	12	8.9	5.9	2.7	2.1	2.1
13	8.4	43	15	14	15	12	12	8.9	5.9	2.7	2.0	2.0
14	8.0	28	15	13	15	12	12	8.4	5.0	2.7	2.0	2.1
15	6.7	25	15	13	15	14	11	8.4	4.5	2.7	2.0	2.5
16	6.3	22	15	12	15	14	9.9	8.4	4.5	2.4	2.0	2.4
17	6.3	20	15	12	15	14	10	8.4	4.5	2.4	2.0	2.7
18	7.2	20	15	12	15	13	10	8.4	4.2	2.4	1.9	2.9
19	7.2	18	15	12	14	13	10	8.4	4.0	2.3	2.1	2.9
20	7.2	17	15	13	13	12	11	8.9	4.0	2.5	2.1	3.2
21	6.7	15	14	13	12	12	11	8.9	4.0	2.4	2.1	3.4
22	6.7	17	14	13	12	12	13	8.9	3.7	2.7	2.1	3.7
23	7.2	17	14	13	12	12	12	8.4	3.4	2.4	2.4	3.7
24	7.6	17	14	13	12	14	12	8.0	3.4	2.4	2.7	3.4
25	7.6	15	14	13	12	15	11	7.6	3.4	2.3	2.4	3.2
26	7.2	19	14	35	12	12	14	11	7.6	3.2	2.1	2.7	2.9
27	7.2	18	13	30	12	14	10	8.0	3.4	2.0	2.4	2.9
28	7.2	16	14	22	12	13	9.9	8.0	3.2	1.9	2.7	2.7
29	7.2	17	14	19		13	9.3	8.0	3.2	1.9	2.4	2.7
30	7.6	17	13	18		12	9.3	8.0	3.2	1.7	2.4	2.9
31	7.6		14	17		12		8.0		1.7	2.4	
	219.8		456		394		333.4		153.7		70.6	
		638.2		471		390		272.3		81.3		76.6
MEAN	7.1	21.3	14.7	15.2	14.1	12.6	11.1	8.78	5.12	2.62	2.28	2.55
ACRE-FEET	436.	1270.	904.	934.	781.	774.	661.	540.	305.	161.	140.	152.

Remarks:

YEAR OR PERIOD MEAN 9.74
ACRE-FEET 7060.



STATION F250-R
SAN GABRIEL - AZUSA CONDUIT
at Weir below San Gabriel Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°12'15", LONG. 117°51'18", ON THE LEFT (EAST) SIDE OF THE SANDBOX ON AZUSA CONDUIT, 12 FEET ABOVE THE 25-FOOT WEIR AND APPROXIMATELY 100 FEET BELOW THE 30-FOOT OUTLET TUNNEL AT SAN GABRIEL DAM, APPROXIMATELY 2500 FEET BELOW THE OLD EDISON INTAKE (ABANDONED), AND APPROXIMATELY 3900 FEET ABOVE STATION 220-R.

CHANNEL AND CONTROL: CHANNEL - CONCRETE SANDBOX WITH SLUICE GATES AND A CONCRETE BY-PASS CHANNEL. A SECONDARY BOX WITH A TAINTOR GATE AND A 10-FOOT WEIR CONTROLS THE FLOW INTO THE CONDUIT. CONTROL - A 25-FOOT, SHARP-CRESTED WEIR WITH TWO END CONTRACTIONS. STATION F250-R GIVES A RECORD OF THE FLOW DOWN THE AZUSA CONDUIT AND/OR FLOW SPILLED INTO MORRIS RESERVOIR.

RECORDER: AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: THE FLOW OF THE SAN GABRIEL RIVER, AVAILABLE AT SAN GABRIEL DAM, IS PARTIALLY REGULATED BY COGSWELL DAM, AND THE ENTIRE FLOW INTO THE SANDBOX IS REGULATED BY VALVE DISCHARGE FROM SAN GABRIEL DAM.

RECORDS AVAILABLE: FEBRUARY 14, 1935 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE: FLOW IS ENTIRELY REGULATED BY VALVE RELEASE. CAPACITY OF SANDBOX IS APPROXIMATELY 165 SECOND-FEET, CAPACITY OF 25-FOOT WEIR IS ABOUT 142 SECOND-FEET. CAPACITY OF THE AZUSA CONDUIT IS APPROXIMATELY 95 SECOND-FEET.

ACCURACY: EXCELLENT.

REMARKS: STATION F250-R IS A RECORD OF DISCHARGES FROM SAN GABRIEL DAM THROUGH THE SANDBOX ONLY AND DOES NOT NECESSARILY REFLECT DISCHARGE TO THE AZUSA CONDUIT. (SEE STATION F220-R)

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D14M C(b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F250-R

Daily discharge, in second-feet of SAN GABRIEL - AZUSA CONDUIT at Weir below Dam, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	19.2	30	14.9	14.8	30	40	32	22	22	22	23	14.8
2	19.2	30	14.8	14.8	39	40	32	22	22	22	23	14.8
3	19.2	30	14.8	14.8	50	40	32	22	22	22	23	14.8
4	19.2	30	14.8	14.8	50	40	32	23	22	22	23	14.8
5	19.2	30	14.8	14.8	50	40	32	23	22	22	23	14.8
6	19.0	30	14.8	14.8	50	40	32	22	22	22	23	14.8
7	25	30	14.8	14.8	50	40	32	22	22	22	23	14.8
8	30	30	14.8	14.8	50	40	25	22	22	22	23	14.8
9	30	30	14.8	14.8	50	40	22	22	22	22	23	14.8
10	30	30	14.8	14.8	50	40	22	22	22	22	23	14.8
11	30	30	14.8	14.8	50	40	22	22	22	22	23	14.8
12	30	30	14.9	15.0	50	40	22	22	22	22	17.3	14.7
13	30	30	15.0	15.2	50	40	22	22	22	22	14.9	14.8
14	30	30	15.0	15.5	49	40	22	22	22	22	14.9	14.8
15	30	30	15.0	23	50	40	22	22	22	22	14.9	14.8
16	30	30	15.0	30	50	40	22	22	22	22	14.9	14.8
17	30	20	15.1	30	50	40	22	22	22	22	14.9	14.8
18	30	15.2	15.2	30	50	40	22	22	22	22	14.9	14.8
19	30	15.4	15.4	30	50	40	22	22	22	22	14.9	14.8
20	30	15.2	15.4	30	50	40	22	22	22	22	14.9	14.8
21	30	15.2	15.1	30	50	40	22	22	22	22	14.9	14.8
22	30	15.4	14.9	30	50	35	22	22	22	22	14.9	14.8
23	30	15.4	14.9	30	44	32	22	22	22	22	14.9	14.8
24	30	15.2	14.8	30	41	32	22	22	22	22	14.9	14.8
25	30	15.2	14.9	30	40	32	22	22	22	22	14.9	14.8
26	30	15.3	14.9	30	40	32	22	22	22	23	14.9	14.8
27	30	15.3	15.0	30	40	32	22	22	22	23	14.9	14.8
28	30	15.3	15.0	30	40	32	23	22	22	23	14.9	8.5
29	30	15.3	15.0	30	40	32	22	22	22	23	14.9	5.4
30	30	15.3	14.9	30		32	22	22	22	23	14.8	5.1
31	30		14.8	30		32		22		23	14.8	
	860.0		463.1		1353.0		734.0		660.0		553.2	
		698.7		711.5		1163.0		684.0		688.0		418.5
MEAN	27.7	23.3	14.9	23.0	46.7	37.5	24.5	22.1	22.0	22.2	17.8	14.0
ACRE-FEET	1710.	1390.	919.	1410.	2680.	2310.	1460.	1360.	1310.	1360.	1100.	830.

Remarks:

YEAR OR PERIOD MEAN 24.6
ACRE-FEET 17,840

76D14M C(b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F250-R

Daily discharge, in second-feet of SAN GABRIEL - AZUSA CONDUIT at Weir below Dam, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.1	8.9	22	21	22	22	22	101	103	3.0	3.0	0
2	5.4	8.9	22	22	22	22	22	101	103	3.0	3.0	0
3	5.4	8.9	22	22	22	22	23	101	103	3.0	3.0	0
4	6.1	8.9	23	22	22	22	19.6	101	103	3.1	3.0	0
5	7.0	f 8.9	23	22	22	22	17.0	101	102	3.0	3.0	0
6	7.0	f 4.3	23	22	22	22	17.0	101	102	3.0	3.0	0
7	7.0	0	22	22	22	22	17.0	101	102	3.0	3.0	0
8	7.0	0	22	22	22	22	17.0	101	102	3.0	3.0	0
9	7.0	0	22	22	22	22	17.0	101	102	3.0	3.0	0
10	7.0	0	22	22	22	22	17.0	101	102	3.0	3.0	0
11	7.2	0	22	22	22	22	17.0	101	102	3.0	3.0	0
12	7.2	0	22	22	22	22	17.0	101	103	3.0	3.0	0
13	7.3	0	22	22	22	22	17.0	101	103	3.0	3.0	0
14	7.0	0	22	22	22	22	13.6	101	81	3.0	3.0	0
15	6.8	9.2	22	22	22	22	10.2	e 101	71	3.0	3.0	0
16	6.8	34	22	22	22	22	10.2	9.7	71	3.0	3.0	0
17	8.1	45	22	22	22	22	10.2	8.8	71	3.1	3.0	0
18	9.1	35	22	22	22	22	10.2	8.4	69	3.1	3.0	0
19	9.1	30	22	22	22	22	10.3	10.6	5.7	3.1	3.0	0
20	9.1	30	22	22	22	22	10.1	16.6	4.2	3.0	3.0	0
21	9.1	30	22	22	22	22	10.0	16.4	4.1	3.0	3.0	0
22	9.1	25	22	22	22	22	10.0	16.4	3.7	3.0	3.0	0
23	9.1	22	22	22	22	22	10.0	12.5	3.5	3.0	2.9	0
24	9.1	22	22	22	22	22	10.0	e 10.3	4.4	3.0	1.1	0
25	9.1	22	22	22	22	22	10.1	10.3	4.5	3.0	0	0
26	9.1	14.8	22	22	22	22	10.1	10.3	4.7	3.0	0	0
27	9.1	0	22	22	22	22	10.1	10.3	3.7	3.0	0	0
28	9.0	9.8	22	22	22	22	10.1	10.3	3.2	3.0	0	0
29	8.9	22	22	22		22	10.1	10.3	3.2	3.0	0	0.2
30	8.9	22	22	22		22	10.1	10.3	3.1	3.0	0	0.4
31	8.8		22	22		22		10.3		3.0	0	
	241.0		685		616		415.0		217.5		70.0	
		421.6		681		682		333.3		93.4		0.6
MEAN	7.77	14.1	22.1	22.0	22.0	22.0	13.8	10.8	7.25	3.01	2.26	0.02
ACRE-FEET	478.	836.	1360.	1350.	1220.	1350.	823.	661.	431.	185.	139.	1.2

Remarks:

YEAR OR PERIOD MEAN 12.2
ACRE-FEET 8830.

STATION F220-R
SAN GABRIEL-AZUSA CONDUIT at Garcia Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°11'30", LONG. 117°51'25", ON THE WEST SIDE OF OPENING IN CONCRETE CONDUIT CONNECTING TUNNELS 4-A AND 4-B OF THE AZUSA CONDUIT WHICH DIVERTS WATER FROM THE SAN GABRIEL RIVER AT SAN GABRIEL DAM. THE STATION IS ABOUT 0.8 MILE BELOW SAN GABRIEL DAM AND 2 MILES ABOVE MORRIS DAM. ELEVATION OF GAGE ABOUT 1200 FEET.

CHANNEL AND CONTROL: STATION LOCATED ON SHORT OPEN SECTION OF CONCRETE CHANNEL. THE FLOW OVER THE 25-FOOT WEIR (STATION F250-R) MAY BE SPILLED BEFORE REACHING STATION F220-R. FLOW WHICH REACHES STATION F220-R MAY BE BY-PASSED AROUND THE 25-FOOT WEIR AT STATION F250-R.

DISCHARGE MEASUREMENTS: FROM TOP OF TUNNEL PORTAL.

RECORDER: AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

RECORDS AVAILABLE: FEBRUARY 26, 1933 TO SEPTEMBER 30, 1961. (SEE REMARKS)

EXTREMES OF DISCHARGE: FLOW ENTIRELY REGULATED BY TAINTOR GATE SETTING AND VALVE DISCHARGE AT SAN GABRIEL DAM. APPROXIMATE CAPACITY 95 SECOND-FEET.

ACCURACY: EXCELLENT.

REMARKS: THIS RECORD REFLECTS FLOW DIVERTED TO THE AZUSA CONDUIT FROM SAN GABRIEL DAM.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F220-R

Daily discharge, in second-feet of SAN GABRIEL -- AZUSA CONDUIT at Garcia Canyon, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	193	30	149	147	30	41	32	22	22	22	23	149
2	193	30	147	147	39	40	32	22	22	22	23	149
3	193	30	149	147	50	40	32	22	22	22	23	149
4	191	30	151	149	50	40	32	22	22	22	23	149
5	191	30	151	147	50	40	31	22	22	23	23	149
6	191	30	149	147	50	40	32	22	23	23	23	149
7	27	30	147	147	50	40	32	22	23	23	23	149
8	30	30	147	147	50	40	25	22	23	23	23	147
9	30	30	147	147	50	40	22	22	22	22	23	147
10	30	30	145	147	50	40	22	22	22	22	23	147
11	30	29	145	151	50	40	22	22	22	22	23	147
12	30	30	145	151	49	40	22	22	22	22	174	147
13	30	30	147	151	50	40	22	22	22	22	149	147
14	30	30	147	153	50	40	22	22	22	22	149	149
15	30	30	147	22	50	40	22	22	22	22	151	149
16	31	30	147	30	50	40	22	22	22	22	151	149
17	31	20	149	30	50	40	22	22	22	22	151	151
18	31	155	149	30	50	40	22	22	22	22	150	151
19	30	157	151	30	50	40	22	22	22	22	149	149
20	30	157	151	30	50	40	22	22	22	22	149	149
21	30	155	149	31	49	40	22	22	22	22	149	151
22	30	155	149	30	49	35	22	22	22	22	151	151
23	30	155	149	30	44	32	22	22	22	22	151	149
24	30	155	147	30	40	32	22	22	22	22	151	149
25	30	155	147	30	40	32	22	22	22	22	151	149
26	30	155	147	30	40	32	22	22	22	23	151	149
27	30	155	149	30	40	32	22	22	22	23	151	149
28	30	155	149	30	41	32	23	22	22	23	151	85
29	30	155	149	30	40	32	22	22	22	23	151	54
30	30	155	149	30		32	22	22	22	23	149	53
31	30		147	30		32		22		23	149	
	8652		4591		1351.0		733.0		663.0		5558	
		7009		7108		1164.0		682.0		692.0		4211
MEAN	27.9	23.4	14.8	22.9	46.6	37.5	24.4	22.0	22.1	22.8	17.9	14.0
ACRE-FEET	1720	1390.	911.	1410.	2680.	2310.	1450.	1350.	1320.	1370.	1100.	835.

Remarks:

YEAR OR PERIOD MEAN 24.6
ACRE-FEET 17,850.

7ADT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F220-R

Daily discharge, in second-feet of SAN GABRIEL - AZUSA CONDUIT at Garcia Canyon, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	5.3	8.8	22	21	22	22	22	10.1	6.9	3.2	3.1	0
2	5.6	8.8	22	22	22	22	22	10.1	10.4	3.2	3.0	0
3	5.6	8.9	22	22	22	22	22	10.1	10.6	3.2	3.0	0
4	6.2	8.9	22	22	22	22	19.5	10.1	10.6	3.2	3.0	0
5	6.9	9.1	22	22	22	22	17.0	10.1	8.3	3.2	3.0	0
6	6.9	4.5	22	22	22	22	17.3	10.1	4.9	3.2	3.0	0
7	7.0	0	22	22	22	22	17.3	10.1	10.2	3.1	3.0	0
8	7.0	0	22	22	22	22	17.0	10.1	10.2	3.1	3.1	0
9	7.2	0	22	22	22	22	17.0	10.1	10.2	3.0	3.1	0
10	7.2	0	22	22	22	22	17.0	10.1	10.2	3.0	3.1	0
11	7.2	0	22	22	22	22	17.0	10.1	10.2	3.0	3.1	0
12	7.4	0	22	22	22	22	17.0	10.1	10.2	3.0	3.1	0
13	7.4	0	22	22	22	22	17.3	10.1	10.2	3.0	3.1	0
14	7.0	0	22	22	22	22	13.7	10.1	8.1	3.0	3.1	0
15	6.7	9.2	22	22	22	22	10.2	10.1	7.0	2.9	3.1	0
16	6.7	3.4	22	22	22	22	10.2	9.7	7.0	3.0	3.1	0
17	8.0	4.5	22	22	22	22	10.2	8.8	7.0	3.0	3.1	0
18	8.9	3.5	22	22	22	22	10.2	8.4	6.7	3.0	3.1	a 0
19	8.9	3.0	22	22	22	22	10.2	10.6	5.9	3.0	3.1	0
20	9.1	3.0	22	22	22	22	10.1	16.6	4.4	3.0	3.1	0
21	9.1	3.0	22	22	22	22	10.1	16.4	4.5	3.0	3.1	0
22	9.1	2.5	22	22	22	22	10.2	16.4	4.0	3.0	3.1	0
23	9.1	2.2	22	22	22	22	10.1	12.7	3.7	3.0	3.0	0
24	a 9.1	2.2	22	22	22	22	10.1	10.6	4.3	3.0	1.2	0
25	a 9.1	2.2	22	23	22	22	10.1	10.4	4.4	3.0	0	0
26	a 9.1	1.6	22	23	22	22	10.1	10.6	4.7	3.0	0	0
27	a 9.1	0	22	23	22	22	10.1	10.6	3.8	3.0	0	0
28	f 8.9	9.3	22	23	22	22	9.9	10.6	3.2	3.1	0	0
29	8.9	22	22	23		22	9.9	10.6	3.2	3.1	0	0.2
30	8.9	22	22	22		22	9.9	10.6	3.2	3.1	0	a 0.4
31	8.9		22	22		22		5.9		3.1	0	
	241.5		682		616		414.7		208.2		71.8	
		422.5		686		682		331.0		94.7		0.6
MEAN	7.79	14.1	22.0	22.1	22.0	22.0	13.8	10.7	6.94	3.05	2.32	0.02
ACRE-FEET	479.	838.	1350.	1360.	1220.	1350.	823.	660.	413.	188.	142.	1.2

Remarks:

YEAR OR PERIOD MEAN 12.2
ACRE-FEET 8820.

STATION U8-R
SAN GABRIEL RIVER below Morris Dam

LOCATION: WATER-STAGE RECORDER. LAT. 34°10'11", LONG. 117°53'16". IN SW 1/4, NW 1/4, SW 1/4, SEC. 13, T1N, R10W, ON RIGHT BANK, 1.1 MILES DOWNSTREAM FROM MORRIS DAM AND 2.7 MILES NORTHEAST OF AZUSA. ALTITUDE OF GAGE 867.59 FEET.

DRAINAGE AREA: 211 SQUARE MILES.

RECORDS AVAILABLE: MAY 1894 TO SEPTEMBER 1961.

AVERAGE DISCHARGE:
66 YEARS, 148 SECOND-FEET, AVERAGE COMBINED DISCHARGE OF RIVER AND DIVERSIONS - ADJUSTED FOR STORAGE AND EVAPORATION IN MORRIS, SAN GABRIEL AND COGSWELL RESERVOIRS.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM NO FLOW DURING YEAR
MINIMUM NO FLOW DURING YEAR.
1960-61
MAXIMUM 9.1 SECOND-FEET MAY 6, (GAGE HEIGHT 5.07 FEET).
MINIMUM NO FLOW MOST OF YEAR.
1894-1961
MAXIMUM 65,700 SECOND-FEET MARCH 2, 1938, BY COMPUTATION OF FLOW OVER SPILLWAY AT MORRIS DAM.
MINIMUM NO FLOW FOR SEVERAL MONTHS IN MOST YEARS.

REMARKS: RECORDS GOOD. FLOW REGULATED BY FLOOD CONTROL DISTRICT'S SAN GABRIEL AND COGSWELL RESERVOIRS, AND BY MORRIS RESERVOIR OF METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA. AZUSA CANAL (FORMERLY POWER CANAL OF SOUTHERN CALIFORNIA EDISON COMPANY) DIVERTS ABOVE HIGH-WATER LINE OF MORRIS RESERVOIR AT A POINT ABOUT THREE MILES ABOVE STATION. THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA DISCHARGED 748 ACRE-FEET OF COLORADO RIVER WATER INTO SAN GABRIEL RIVER BELOW MORRIS DAM AND ABOVE STATION DURING WATER YEAR 1959-60 AND 5645 ACRE-FEET DURING WATER YEAR 1960-61.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH, THREE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

NORMAL UNREGULATED FLOW: COMBINED RUNOFF OF RIVER AND AZUSA CANAL, ADJUSTED FOR STORAGE AND EVAPORATION IN MORRIS, SAN GABRIEL AND COGSWELL RESERVOIRS, USING RECORDS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. THESE FIGURES OF RUNOFF ARE EQUIVALENT TO COMBINED RECORDS OF SAN GABRIEL RIVER AND SOUTHERN CALIFORNIA EDISON COMPANY'S CANAL AS PUBLISHED FROM 1894 TO 1933.

MONTH	1959-60 A.F.	1960-61 A.F.
OCTOBER	948.	724.
NOVEMBER	1060.	2600.
DECEMBER	1440.	1550.
JANUARY	2750.	1890.
FEBRUARY	3140.	1460.
MARCH	2920.	1380.
APRIL	2330.	1050.
MAY	2440.	847.
JUNE	1120.	448.
JULY	618.	232.
AUGUST	392.	240.
SEPTEMBER	367.	206.
TOTALS	19520.	12630.

7ED764M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U8-R

Daily discharge, in second-feet of SAN GABRIEL RIVER below Morris Dam, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	3.1	4.2	3.5	3.5
2	0	0	0	0	0	0	0	0	3.1	3.9	3.5	3.1
3	0	0	0	0	0	0	0	2.3	3.1	3.7	3.5	3.1
4	0	0	0	0	0	0	0	4.9	3.3	3.9	4.2	3.1
5	0	0	0	0	0	0	0	6.1	3.3	4.4	4.9	3.5
6	0	0	0	0	0	0	0	7.2	3.5	4.6	4.9	3.9
7	0	0	0	0	0	0	0	7.2	3.5	4.9	4.9	4.4
8	0	0	0	0	0	0	0	7.2	3.5	4.9	4.9	4.6
9	0	0	0	0	0	0	0	7.3	3.5	4.9	4.9	4.6
10	0	0	0	0	0	0	0	7.5	3.5	4.6	4.9	4.6
11	0	0	0	0	0	0	0	7.2	3.5	4.2	4.9	4.6
12	0	0	0	0	0	0	0	6.8	3.5	4.4	4.9	4.2
13	0	0	0	0	0	0	0	6.8	3.5	4.2	4.6	3.7
14	0	0	0	0	0	0	0	6.8	3.5	4.4	4.4	3.5
15	0	0	0	0	0	0	0	4.8	3.5	4.4	5.2	3.5
16	0	0	0	0	0	0	0	2.6	3.7	4.4	5.2	3.5
17	0	0	0	0	0	0	0	2.6	3.7	4.4	4.6	3.5
18	0	0	0	0	0	0	0	2.6	3.9	4.4	4.6	3.7
19	0	0	0	0	0	0	0	2.6	3.9	4.4	4.6	3.7
20	0	0	0	0	0	0	0	2.6	3.9	4.4	4.6	3.7
21	0	0	0	0	0	0	0	2.6	3.7	4.2	4.6	3.7
22	0	0	0	0	0	0	0	2.6	3.7	4.2	4.4	3.7
23	0	0	0	0	0	0	0	2.6	3.7	4.4	4.4	3.7
24	0	0	0	0	0	0	0	2.6	3.7	4.4	4.6	3.9
25	0	0	0	0	0	0	0	3.0	3.9	4.4	4.9	4.2
26	0	0	0	0	0	0	0	3.1	3.9	4.2	5.2	4.4
27	0	0	0	0	0	0	0	3.1	3.9	4.2	5.5	4.4
28	0	0	0	0	0	0	0	3.1	3.9	4.0	5.5	4.4
29	0	0	0	0		0	0	3.1	3.9	4.0	5.5	4.4
30	0	0	0	0		0	0	3.3	4.2	3.5	5.2	4.4
31	0		0	0		0		3.3		3.5	4.9	
	0		0		0		0		108.5		146.4	
		0		0		0		127.4		132.6		117.2
MEAN	0	0	0	0	0	0	0	4.11	3.62	4.28	4.72	3.91
ACRE-FEET	0	0	0	0	0	0	0	253.	215.	263.	290.	232.

Remarks:

YEAR OR PERIOD MEAN 1.73
ACRE-FEET 1250.

STATION S100A-R
SAN GABRIEL AZUSA-DUARTE TUNNEL DIVERSION
at Mouth of Canyon

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'33", LONG. 117°54'27", AT WEIR BOX AT THE DOWNSTREAM PORTAL OF THE AZUSA-DUARTE TUNNEL ABOUT 250 FEET SOUTH OF THE CANYON ROAD AT THE MOUTH OF SAN GABRIEL CANYON, ELEVATION OF GAGE ABOUT 750 FEET.

GENERAL: THIS STATION MEASURES ALL FLOW DIVERTED BY THE SAN GABRIEL RIVER WATER COMMITTEE AT THE MOUTH OF SAN GABRIEL CANYON.

CHANNEL AND CONTROL: CONCRETE WEIR BOX WITH BROAD-CRESTED WEIRS. THESE WEIRS CAN DIVIDE THE FLOW BETWEEN THE EAST SIDE SPREADING GROUNDS AND THE DUARTE SPREADING GROUNDS. EITHER SIDE CAN BE DIVERTED FOR IRRIGATION.

REGULATION: RIVER FLOW AT THE CANYON MOUTH IS PARTIALLY REGULATED BY MORRIS DAM, SAN GABRIEL DAM AND COGSWELL DAM. THE DIVISION OF THE DIVERTED FLOW CAN BE REGULATED AT THE WEIRS BY INSERTING CONSTRICTIONS.

RECORDS AVAILABLE: THE TUNNEL WAS CONSTRUCTED IN 1887. RECORDS OF DIVERSION SINCE 1918 ARE AVAILABLE AT THE OFFICE OF THE SAN GABRIEL RIVER WATER COMMITTEE, AZUSA.

ACCURACY: EXCELLENT.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE SAN GABRIEL RIVER WATER COMMITTEE.

RECORDS WERE FURNISHED BY MR. MAURICE D. JONES, WATER MASTER OF THE SAN GABRIEL RIVER WATER COMMITTEE, PUBLISHED HEREWITH ARE THE RECORDS FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961. RECORDS PRIOR TO OCTOBER 1939 WERE PUBLISHED WITH THE RECORDS OF STATION F100-R WHICH WAS ABANDONED NOVEMBER 1940. THERE WAS NO FLOW DURING 1959-60.

36D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. S100A-R

Daily discharge, in second-feet of SAN GABRIEL AZUSA-DUARTE TUNNEL DIVERSION at Mouth of Canyon, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	122	124	122	114
2	0	0	0	0	0	0	0	0	122	126	122	106
3	0	0	0	0	0	0	0	0	122	124	120	102
4	0	0	0	0	0	0	0	0	120	122	130	98
5	0	0	0	0	0	0	0	28	122	122	134	100
6	0	0	0	0	0	0	0	62	122	124	134	102
7	0	0	0	0	0	0	0	90	122	126	136	106
8	0	0	0	0	0	0	0	100	122	128	136	114
9	0	0	0	0	0	0	0	104	122	128	136	118
10	0	0	0	0	0	0	0	108	122	128	136	114
11	0	0	0	0	0	0	0	114	122	124	136	118
12	0	0	0	0	0	0	0	118	122	124	136	122
13	0	0	0	0	0	0	0	116	122	122	130	112
14	0	0	0	0	0	0	0	126	122	122	128	112
15	0	0	0	0	0	0	0	136	122	126	128	108
16	0	0	0	0	0	0	0	128	126	124	140	106
17	0	0	0	0	0	0	0	126	126	124	134	102
18	0	0	0	0	0	0	0	126	126	124	134	102
19	0	0	0	0	0	0	0	126	126	126	130	102
20	0	0	0	0	0	0	0	126	126	128	128	102
21	0	0	0	0	0	0	0	126	124	128	126	102
22	0	0	0	0	0	0	0	126	122	128	122	104
23	0	0	0	0	0	0	0	124	120	128	120	102
24	0	0	0	0	0	0	0	122	122	126	120	102
25	0	0	0	0	0	0	0	124	124	128	122	102
26	0	0	0	0	0	0	0	126	124	128	122	104
27	0	0	0	0	0	0	0	124	124	128	126	104
28	0	0	0	0	0	0	0	122	122	126	128	104
29	0	0	0	0		0	0	122	120	126	128	104
30	0	0	0	0		0	0	122	124	126	126	104
31	0		0	0		0		122		124	126	
	0	0	0	0	0	0	0	3094	3684	3892	3996	3192
MEAN	0	0	0	0	0	0	0	9.98	12.3	12.6	12.9	10.6
ACRE-FEET	0	0	0	0	0	0	0	614.	731.	772.	793.	633.

Remarks:

YEAR OR PERIOD MEAN 4.89
ACRE-FEET 3540.

STATION F190-R
SAN GABRIEL RIVER at Foothill Boulevard

LOCATION: WATER-STAGE RECORDER. LAT. 34°08'13", LONG. 117°56'32", ON THE DOWNSTREAM SIDE OF FOOTHILL BOULEVARD BRIDGE TWO MILES WEST OF AZUSA. ELEVATION OF ZERO GAGE HEIGHT, 565.50 FEET.

DRAINAGE AREA: 230 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - TRAPEZOIDAL WITH GUNITED ROCK LEVEES AND NATURAL SAND, GRAVEL AND ROCK BOTTOM; BOTTOM WIDTH 590 FEET, DEPTH 12 FEET. CONTROL-GUNITED ROCK STABILIZERS.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING: HIGH FLOWS MEASURED FROM CABLE CAR 900± FEET BELOW THE STATION.

RECORDER: AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY COGSWELL DAM. SAN GABRIEL DAM AND MORRIS DAM.

DIVERSIONS: THERE ARE DIVERSIONS FOR IRRIGATION, POWER DEVELOPMENT AND SPREADING.

RECORDS AVAILABLE: STREAM MEASUREMENTS STARTING FEBRUARY 22, 1932. RECORDER RECORDS FROM APRIL 25, 1932 TO SEPTEMBER 30, 1961. (FOR RECORDS PRIOR TO FEBRUARY 22, 1932, SEE DIVISION OF WATER RIGHTS BULLETINS.)

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 90 SECOND-FEET APRIL 27.
MINIMUM NO FLOW PART OF YEAR.
1960-61
MAXIMUM 47.6 SECOND-FEET JANUARY 26.
MINIMUM NO FLOW MOST OF YEAR.
1932-61
MAXIMUM 62,000 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT TIMES EACH YEAR.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F190-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Foothill Boulevard, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	5.8	4.6	0	0				
2	0	0	0	0	13	2.3	0	0				
3	0	0	0	0	5.4	2.0	0	0				
4	0	0	0	0	5.4	2.0	0	0				
5	0	0	0	0	4.8	2.0	0	0				
6	0	0	0	0	4.2	2.0	0	0				
7	0	0	0	0	4.2	2.0	0	0				
8	0	0	0	0	12	2.0	0	0				
9	0	0	0	0	8.2	2.0	0	0				
10	0	0	0	9.0	6.8	1.7	0	0				
11	0	0	0	18	5.4	1.7	0	0				
12	0	0	0	10	4.2	1.7	0	0				
13	0	0	0	0	3.6	1.7	0	0				
14	0	0	0	0.1	3.6	1.4	0	0				
15	0	0	0	2.1	6.1	1.0	0	0				0
16	0	0	0	2.0	8.0	0.9	0	0				0
17	0	0	0	2.0	8.0	0.5	0	0				0
18	0	0	0	2.0	7.4	0.3	0	0				0
19	0	0	0	2.0	6.6	0	0	0				0
20	0	0	0	1.7	6.0	0	0	0				0
21	0	0	0	1.1	10	0	0	0				0
22	0	0	0	1.1	5.4	0	0	0				0
23	0	0	0	1.0	4.2	0	0	0				0
24	0	0	0	0.9	3.0	0	0	0				0
25	0	0	0	1.1	2.3	0	0	0				0
26	0	0	0	1.0	1.7	0	0	0				0
27	0	0	0	0.7	1.7	0	5.5	0				0
28	0	0	0	0.5	1.7	0	11	0				0
29	0	0	0	0.5	3.8	0	+	0				0
30	0	0	0	0.5		0	+	0				0
31	0		0	0.5		0		0				
	0		0		1625		16.5		EO		EO	
		0		408		31.8		EO		EO		EO
MEAN	0	0	0	1.32	5.60	1.03	0.55	EO	EO	EO	EO	EO
ACRE-FEET	0	0	0	81.	322.	63	33.	EO	EO	EO	EO	EO

STOPPED FOR SUMMER

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.69
ACRE-FEET 499.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F190-R

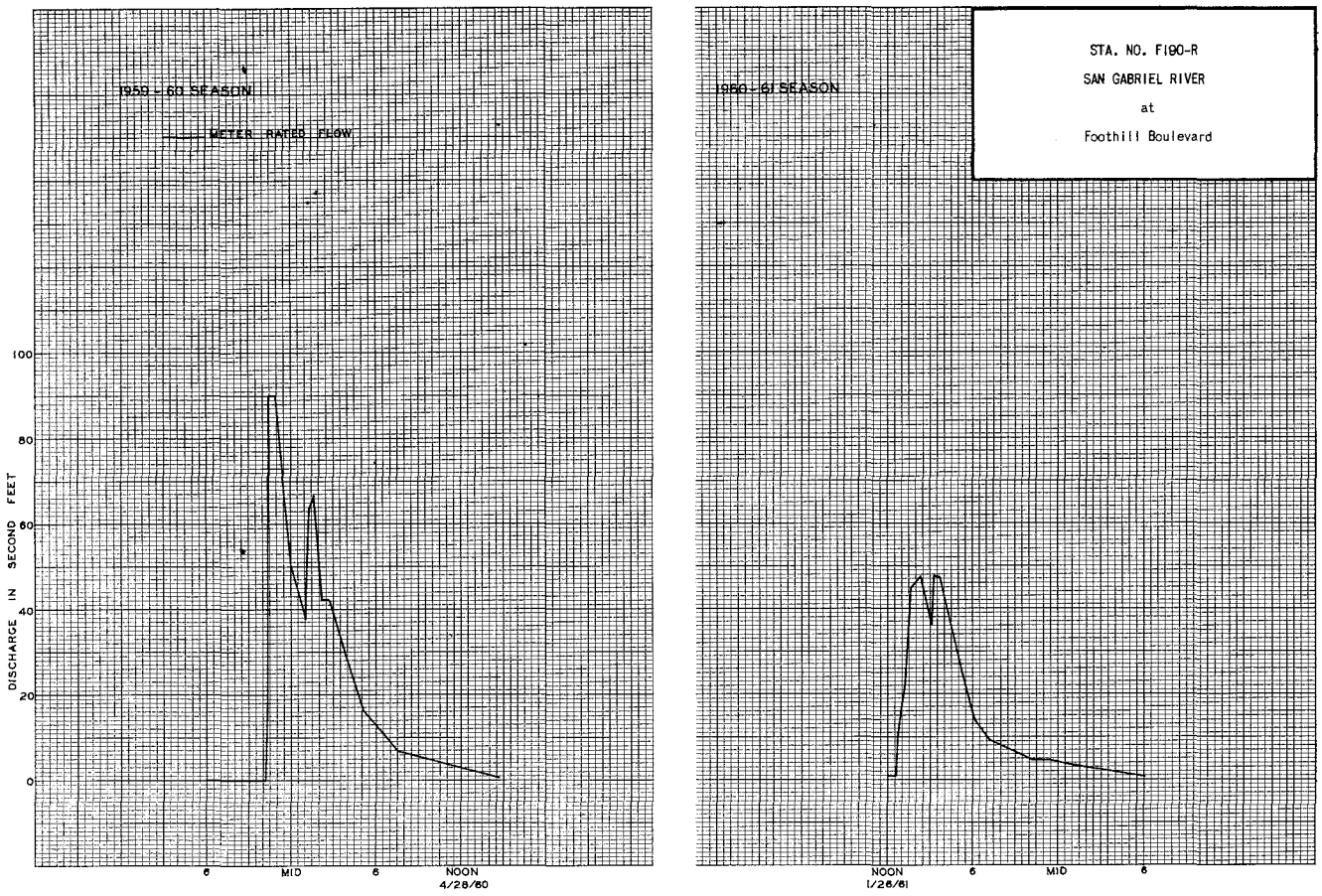
Daily discharge, in second-feet of SAN GABRIEL RIVER at Foothill Boulevard, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0.1	0	0	0	0				
2	0	0	0	0.1	0	0	0	0				
3	0	0	0	0.3	0	0	0	0				
4	0	0	0	0.2	0	0	0	0				
5	0	+	0	0.2	0.1	0	0	0				
6	0	0	0	0.2	0.3	0	0	0				
7	0	0	+	0.4	0	0	0	0				
8	0	0	0.1	0.4	0	0	0	0				
9	0	0	0	0.4	0	0	0	0				
10	0	0	0	0.3	0	0	0	0				
11	0	0	0	0.3	0	0	0	0				
12	0	1.2	0	0.3	0	0	0	0				
13	0	1.1	+	0.3	0	0	0	0				
14	0	0	0.2	0.2	0	0	0	0				
15	0	0.6	0.2	0.2	0	0	0	0				
16	0	13	0.2	0.1	0	0	0	0				
17	0	26	0.2	+	0	0	0	0				
18	0	12	0.2	+	0	0	0	0				
19	0	+	0.2	0	0	0	0	0				
20	0	0	0.2	+	0	0	0	0				
21	0	0	0.2	+	0	0	0	0				
22	0	0	0.1	0.6	0	0	0	0				
23	0	0	+	0.1	0	0	0	0				
24	0	0		0	0	0	0	0				
25	0	0		0	0	0	0	0				
26	0	+		9.9	0	0	0	0				
27	0	0	+	0.9	0	0	0	0				
28	0	0	0.1	0.6	0	0	0	0				
29	0	0	0	0.4	+	0	0	0				
30	0	0	+	0		0	0	0				
31	0		0.1	0		0		0				
	0		2.9		0.4		0		EO		EO	
		53.9		16.5		0		EO		EO		EO
MEAN	0	1.80	0.09	0.53	0.01	0	0	EO	EO	EO	EO	EO
ACRE-FEET	0	107.	5.8	33.	0.8	0	0	EO	EO	EO	EO	EO

RECORDER STOPPED FOR SUMMER

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.20
ACRE-FEET 147.



STATION E281-R
SAN GABRIEL RIVER below Santa Fe Dam

LOCATION: WATER-STAGE RECORDER LAT. 34°06'44", LONG. 117°58'07", ON THE LEFT BANK OF STILLING BASIN OUTLET OF SANTA FE DAM, 1.7 MILES NORTH OF BALDWIN PARK. ELEVATION OF GAGE 400 FEET.

DRAINAGE AREA: 231 SQUARE MILES. SPILLWAY FLOW FROM SANTA FE DAM WILL BE PASSED TO RIO HONDO.

CHANNEL AND CONTROL: CHANNEL - A STILLING BASIN LOCATED IN THE OUTLET CHANNEL IMMEDIATELY BELOW SANTA FE DAM. CONTROL - 194.84-FOOT CONCRETE OVERFLOW SECTION TO THE SAN GABRIEL RIVER AND FIVE GATED OPENINGS TO THE RIO HONDO DIVERSION CANAL. STATION E281-R RECORDS WATER SURFACE ELEVATION IN THE STILLING BASIN.

DISCHARGE MEASUREMENTS: LOW FLOW MEASUREMENTS MAY BE MADE ON LIP OF BASIN BELOW GAGE HEIGHT 2.5 FEET; HIGH FLOW MEASUREMENTS MAY BE MADE FROM CABLE CAR 1000 FEET BELOW GAGE.

RECORDER: A STEVENS A-35 RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW REGULATED BY SANTA FE DAM. INFLOW PARTIALLY REGULATED BY COGSWELL DAM, SAN GABRIEL DAM AND MORRIS DAM. GATES WERE INSTALLED DECEMBER 1948.

DIVERSION: THERE ARE DIVERSIONS FOR IRRIGATION, POWER DEVELOPMENT AND SPREADING. DISCHARGES OVER THE SPILLWAY OF DAM FLOW TO THE RIO HONDO AND ARE NOT RECORDED AT THIS STATION. FIVE GATED OPENINGS ON THE WEST SIDE OF THE STILLING BASIN MAY DIVERT FLOW TO A DIVERSION CANAL TO THE RIO HONDO. SUCH DIVERSIONS ARE MEASURED AT STATION F280-R, SANTA FE CHANNEL.

RECORDS AVAILABLE: RECORDER RECORDS FEBRUARY 9, 1943 TO SEPTEMBER 30, 1961. FOR MEASUREMENTS PRIOR TO FEBRUARY 9, 1943, SEE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT STAFF GAGE STATION F247-S AT ARROW HIGHWAY.

EXTREMES OF DISCHARGE:

1959-60
MAXIMUM 6.9 SECOND-FEET FEBRUARY 2, (GAGE HEIGHT 10.26 FEET).
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM NO FLOW ENTIRE SEASON.
MINIMUM NO FLOW ENTIRE SEASON.
1942-61
MAXIMUM 8000 SECOND-FEET (REVISED) JANUARY 24, 1943.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: GOOD.

COOPERATION: RECORDS FURNISHED BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, AND THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH. 30 MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M C(h 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. E281-R

Daily discharge, in second-feet of SAN GABRIEL RIVER below Santa Fe Dam, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0.5	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	3.3	0	0	0	0	0	0	0
10	0	0	0	0	0.7	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0.1	0	0	0	0	0	0	0
18	0	0	0	0	0.2	0	0	0	0	0	0	0
19	0	0	0	0	0.6	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	1.3	0	0	0	0	0	0	0
22	0	0	0	0	1.1	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	0	0	7.8	0	0	0	0	0	0	0
MEAN	0	0	0	0	0.27	0	0	0	0	0	0	0
ACRE-FEET	0	0	0	0	15.	0	0	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.02
ACRE-FEET 15.

STATION M335-R
SAN GABRIEL-MWD OUTLET below
San Bernardino Road

LOCATION: DISCHARGE RECORDER, LAT. 34°04'34", LONG. 117°59'56", ON THE SAN GABRIEL RIVER OUTLET OF THE METROPOLITAN WATER DISTRICT MIDDLE FEEDER, NEAR THE LEFT (EAST) BANK OF THE SAN GABRIEL RIVER ABOUT 460 FEET SOUTH OF SAN BERNARDINO ROAD AND 350 FEET WEST OF RIVER GRADE ROAD.

CHANNEL AND CONTROL: A 20.5-FOOT RECTANGULAR, SUPPRESSED WEIR UNTIL APRIL 13, 1960. BEGINNING DECEMBER 21, 1960 A 73-INCH DIAMETER PIPE WITH 49.32-INCH DIAMETER ORIFICE PLATE.

DISCHARGE MEASUREMENTS: ALL FLOWS MEASURED BY ORIFICE METER WITH TOTALIZER BEGINNING DECEMBER 21, 1960.

RECORDER: A STEVENS TYPE A-35 RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO APRIL 13, 1960. A VENTURI RECORDER WAS IN SERVICE FROM DECEMBER 21,1960 TO SEPTEMBER 30, 1961.

RECORDS AVAILABLE: AT STATION F335-R - FROM NOVEMBER 30, 1957 TO APRIL 13, 1960.
AT STATION M335-R - FROM DECEMBER 17, 1960 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 272 SECOND-FEET OCTOBER 17.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 355 SECOND FEET VARIOUS DAYS.
MINIMUM NO FLOW AT VARIOUS TIMES.
1957-61
MAXIMUM 355 SECOND FEET VARIOUS TIMES 1961.
MINIMUM NO FLOW AT VARIOUS TIMES EACH YEAR

ACCURACY: EXCELLENT.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE METROPOLITAN WATER DISTRICT IN COOPERATION WITH THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. THIS STATION IS OPERATED SOLELY FOR THE PURPOSE OF MEASURING THE DELIVERY OF COLORADO RIVER WATER BY THE METROPOLITAN WATER DISTRICT TO THE SAN GABRIEL RIVER.

STATION M335-R
SAN GABRIEL-MWD OUTLET below
San Bernardino Road (Cont'd)

MONTHLY DISCHARGE IN ACRE-FEET:

MONTH	1959-60	1960-61
OCTOBER	12,050.	0
NOVEMBER	13,230.	0
DECEMBER	2,050.	6,710.
JANUARY	5,880.	8,710.
FEBRUARY	7,940.	12,470.
MARCH	1,420.	8,650.
APRIL	616.	11,760.
MAY	0	4,430.
JUNE	0	4,430.
JULY	0	0
AUGUST	0	0
SEPTEMBER	0	10,290.
TOTAL	43,190.	67,450.

STATION F26IC-R
SAN GABRIEL RIVER
below Valley Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°03'15", LONG. 118°00'29", ON THE RIGHT (WEST) BANK 1150 FEET BELOW VALLEY BOULEVARD, 2½ MILES EAST OF EL MONTE. ELEVATION OF ZERO GAGE HEIGHT 264.13 FROM PLANS.

DRAINAGE AREA: 118 SQUARE MILES (EXCLUDES AREA ABOVE SANTA FE DAM.)

CHANNEL AND CONTROL: CHANNEL - TRAPEZOIDAL, NATURAL SAND AND GRAVEL BOTTOM WITH PLACED ROCK RIP-RAP SIDES, 450-FOOT WIDE AT BOTTOM, 535 FEET WIDE AT TOP AND 17 FEET DEEP.
CONTROL - CONCRETE STABILIZER WITH 60-FEET WIDE NOTCH, 100 FEET BELOW STATION.

DISCHARGE MEASUREMENTS: ALL FLOWS MEASURED BY WADING.

RECORDER: A STEVENS TYPE A-35 RECORDER WAS IN SERVICE FROM NOVEMBER 29, 1960 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY COGSWELL DAM, SAN GABRIEL DAM, MORRIS DAM, SANTA FE DAM, BIG DALTON DAM, PUDDINGSTONE DIVERSION DAM, PUDDINGSTONE DAM, LIVE OAK DAM, THOMPSON CREEK DAM, SEVERAL DEBRIS BASINS AND THE M.W.D. MIDDLE FEEDER OUTLET BELOW SAN BERNARDINO ROAD.

DIVERSION: THERE ARE SEVERAL DIVERSIONS FOR IRRIGATION, POWER DEVELOPMENT AND SPREADING.

RECORDS AVAILABLE: NOVEMBER 29, 1960 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1960-61
MAXIMUM 1200 SECOND-FEET (ESTIMATED) JANUARY 26.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD FOR LOW FLOWS; FAIR FOR HIGH FLOWS.

OPERATION: LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. CONSTRUCTED BY THE U.S. CORPS OF ENGINEERS.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F26IC-R

Daily discharge, in second-feet of SAN GABRIEL RIVER below Valley Boulevard, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			0	160	206	148	262	85	222	0	0	0
2			23	160	182	73	219	0	80	0	0	0
3			101	86	158	0	192	0	100	0	0	0
4			202	0	160	0	184	0	198	0	0	0
5			215	0	148	0	175	0	227	0	0	0
6			212	0	145	77	177	62	269	0	0	0
7			212	0	148	184	138	169	129	0	0	0
8			202	0	148	183	126	174	0	0	0	0
9			202	0	153	180	132	73	0	0	0	66
10			196	0	150	91	135	0	61	0	0	183
11			193	0	150	0	144	0	231	0	0	177
12			190	0	147	0	148	0	240	0	0	183
13			184	0	174	0	167	0	96	0	0	197
14			178	48	189	0	172	0	0	0	0	209
15			78	121	179	16	172	0	0	0	0	212
16			0	136	172	+	166	0	0	0	0	246
17			0	155	169	0	87	0	0	0	0	306
18			0.1	161	166	0	0	0	0	0	0	288
19			23	150	169	0	0	0	0	0	0	269
20			81	139	167	42	0	0	0	0	0	279
21			142	132	163	139	20	0	0	0	0	276
22			143	135	164	159	177	0	0	0	0	269
23			150	135	166	174	186	0	0	0	0	266
24			160	138	162	180	168	0	0	0	0	266
25			166	142	157	195	164	53	0	0	0	263
26		RECORDER	175	219	146	189	173	174	0	0	0	156
27		STARTED	178	38	148	183	172	183	0	0	0	25
28		11/29/60	169	150	148	178	172	200	0	0	0	103
29		0	163	153		230	172	206	0	0	0	153
30		0	163	185		279	180	206	0	0	0	157
31			160	206		279		209		0	0	
			4240.4		4534		4380		1853		0	
		0		2949		3179		1794		0		4526.5
MEAN		0	137.	95.1	162.	103.	146.	57.9	61.8	0	0	151.
ACRE-FEET		0	8410.	5850.	8990.	6310.	8690.	3560.	3680.	0	0	8980.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN INC.
ACRE-FEET 54,500. INC.

STATION F314-R
SAN GABRIEL BY-PASS CHANNEL
above Whittier Narrows Dam

LOCATION: WATER-STAGE RECORDER ON THE LEFT (EAST) BANK OF THE CHANNEL, 500 FEET BELOW DIVERSION HEADWORKS.

CHANNEL AND CONTROL: SAND AND GRAVEL - NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM FOOTBRIDGE AT STATION.

RECORDER: A STEVENS TYPE L RECORDER WAS IN SERVICE DURING PERIODS OF OPERATION.

REGULATION: FLOW REGULATED AT HEADWORKS. INSTALLED TO DIVERT PORTION OF ZONE 1 WATER TO SAN GABRIEL RIVER.

ACCURACY: FAIR.

REMARKS: USED ONLY FOR ZONE 1 PURCHASED WATER DIVERTED TO SAN GABRIEL SPREADING GROUNDS. THERE WAS NO OPERATION DURING THE 1959-60 AND 1960-61 SEASONS.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

STATION F263B-R
SAN GABRIEL RIVER at Beverly Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°00'25", LONG. 118°04'05", ON THE DOWNSTREAM SIDE OF THE BEVERLY BOULEVARD BRIDGE, 0.8 MILE NORTHEAST OF PICO. ELEVATION OF ZERO GAGE HEIGHT, 172.50 FEET, U.S.G.S. DATUM.

DRAINAGE AREA: 206.5 SQUARE MILES (EXCLUSIVE OF DRAINAGE AREA ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: CHANNEL - SAND AND SILT, NO CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM CABLE CAR 600 FEET BELOW STATION.

RECORDER: A STEVENS TYPE A-35B RECORDER IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY COGSWELL DAM, SAN GABRIEL DAM, MORRIS DAM, SANTA FE DAM, BIG DALTON DAM, PUDDINGSTONE DIVERSION DAM, PUDDINGSTONE DAM, LIVE OAK DAM, THOMPSON CREEK DAM, WHITTIER NARROWS DAM AND THE M.W.D. MIDDLE FEEDER OUTLET.

DIVERSIONS: THERE ARE SEVERAL DIVERSIONS FOR IRRIGATION, POWER DEVELOPMENT AND SPREADING.

RECORDS AVAILABLE: FEBRUARY 4, 1937 TO SEPTEMBER 30, 1961. (FOR RECORDS PRIOR TO FEBRUARY 4, 1937, SEE STATION F63-R, SAN GABRIEL RIVER AT WHITTIER BOULEVARD IN PREVIOUS REPORTS. FOR RECORDS PRIOR TO 1929, SEE STATE DIVISION OF WATER RIGHTS BULLETINS V AND VI.)

REMARKS: ZONE 1 WATER WAS DELIVERED TO SAN GABRIEL AND RIO HONDO SPREADING BASINS, 31,380 ACRE-FEET IS INCLUDED IN THIS RECORD DURING 1959-60 AND 46,270 ACRE-FEET DURING 1960-61. THIS IS FOREIGN WATER.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 2390 SECOND-FEET JANUARY 12.
MINIMUM NO FLOW PART OF YEAR.
1960-61
MAXIMUM 1330 SECOND-FEET JANUARY 26.
MINIMUM NO FLOW PART OF YEAR.
1936-61
MAXIMUM 22,000 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES (FOR EARLIER YEARS SEE STATION F63-R).

ACCURACY: FAIR

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

7ED74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F263B-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Beverly Boulevard, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	135	121	4.0	121	234	34	135	1.7	0	0	0	0
2	135	130	1.0	81	178	17	78	1.3	0	0	0	0
3	125	149	0	4.5	130	15	1.5	1.0	0	0	0	0
4	117	154	0	4.2	154	13	0	1.3	0	0	0	0
5	125	154	+	4.5	178	13	0	1.3	0	0	0	0
6	125	144	0	4.8	163	10	0	1.0	0	0	0	0
7	125	144	0	5.4	163	8.3	0	0.7	0	0	0	0
8	117	144	0	6.0	195	4.4	0	0.7	0	0	0	0
9	117	149	0	6.0	124	7.7	0	0.5	0	0	0	0
10	125	149	0	191	73	6.8	0	0.8	0	0	0	0
11	130	154	0	24	154	2.9	0	0	0	0	0	0
12	130	168	0	449	154	8.6	0	0	0	0	0	0
13	135	168	0	18	173	8.8	0	0	0	0	0	0
14	135	168	0	20	178	9.1	0	0	0	0	0	0
15	125	173	0	22	178	10	0	0	0	0	0	0
16	117	178	0	11	178	5.7	0	0.8	0	0	0	0
17	130	178	0	9.7	178	3.7	0	0	0	0	0	0
18	130	178	0	25	173	4.3	0	0	0	0	0	0
19	130	178	0	144	173	+	0	0	0	0	0	0
20	106	184	0	190	173		0	0	0	0	0	0
21	42	184	0	190	173		0	0	0	0	0	0
22	139	184	0	190	178		0	0	0	0	0	0
23	144	190	13	190	178		0	0	0	0	0	0
24	144	190	174	190	97		0	0	0	0	0	0
25	144	173	149	221	17		0	0	0	0	0	0
26	144	178	7.0	77	16		0	0	0	0	0	0
27	144	184	146	154	13	+	353	0	0	0	0	0
28	135	184	81	168	14	44	45	0	0	0	0	0
29	110	190	91	159	58	117	2.2	0	0	0	0	0
30	114	124	114	149		135	2.0	0	0	0	0	0
31	117		121	144		135		0		0	0	
	3891		901.0		4048.0		616.7		0		0	
		4946		3173.1		613.3		11.1		0		0
MEAN	126.	165.	29.1	102.	140.	19.8	20.6	0.36	0	0	0	0
ACRE-FEET	7720.	9810.	1790.	6290.	8030.	1220.	1220.	22.	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 49.7
ACRE-FEET 36,100.

7ED74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

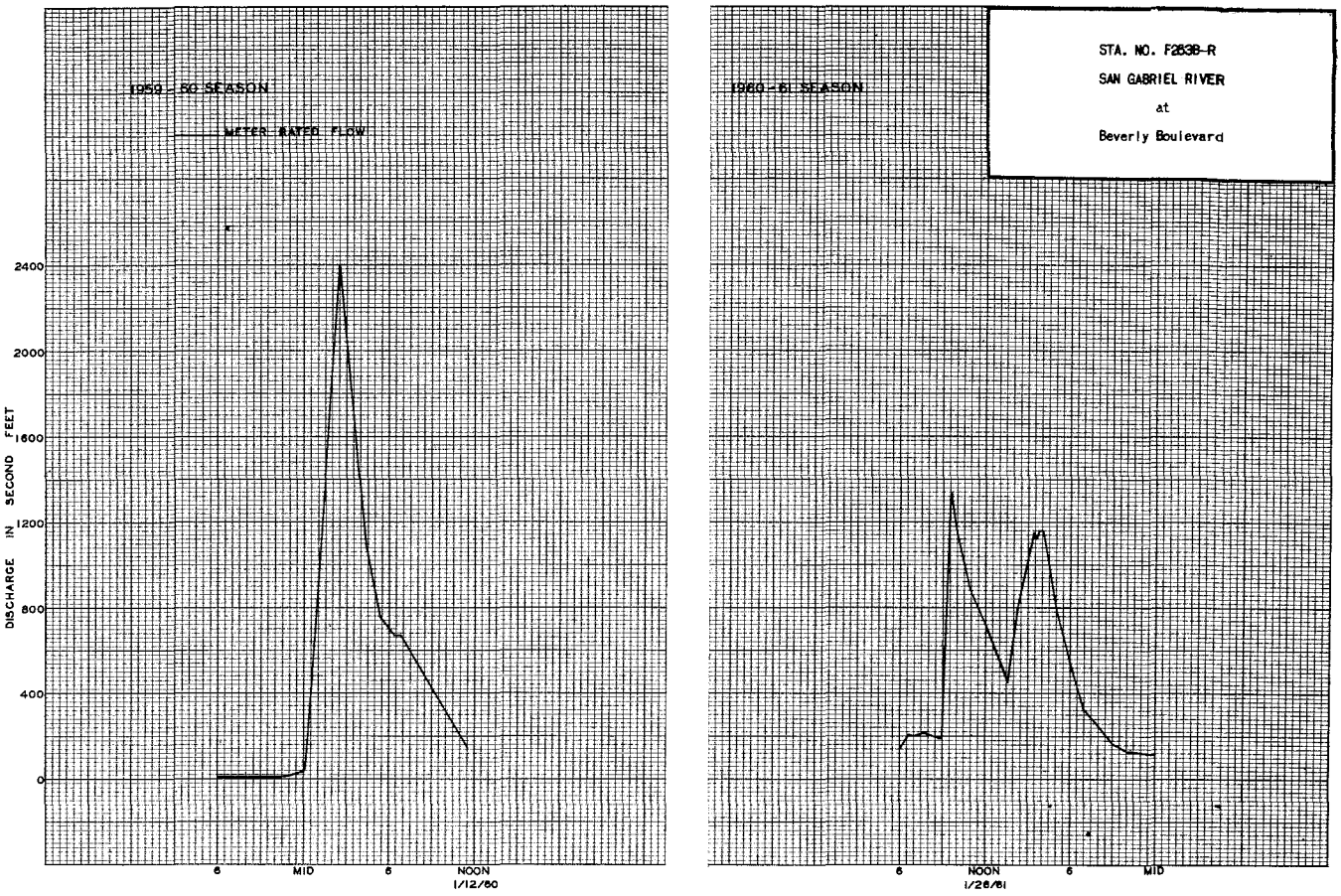
Sta. No. F263B-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Beverly Boulevard, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	b 1.0	144	195	144	234	108	168	0	0	0
2	0	0	b 2.0	144	156	93	200	0	83	0	0	0
3	0	0	34	92	135	5.1	190	0	42	0	0	0
4	0	0	168	4.5	139	4.0	184	0	188	0	0	0
5	0	3.9	173	4.0	128	b 4.5	154	0	203	0	0	0
6	0	18	178	2.3	144	22	173	7.2	228	0	0	0
7	0	22	178	0	139	159	110	130	143	0	0	0
8	0	0.3	178	0	130	163	91	135	0	0	0	0
9	0	0	163	0	135	154	95	78	0	0	0	0
10	0	0	163	0	121	109	98	0	2.1	0	0	50
11	0	0	159	0	125	b 1.3	110	0	162	0	0	84
12	0	69	154	0	130	b 1.0	121	0	206	0	0	95
13	0	13	154	0	145	b 1.0	154	0	111	0	0	117
14	0	16	149	+	168	2.0	173	0	0	0	0	144
15	0	84	90	69	178	4.0	154	0	0	0	0	149
16	0	148	2.5	110	173	6.6	130	0	0	0	0	159
17	0	195	1.0	135	168	4.8	88	0	0	0	0	200
18	0	200	0.7	139	168	2.2	0	0	0	0	0	240
19	0	206	1.1	114	168	0	0	0	0	0	0	a190
20	0	163	75	114	173	3.7	0	0	0	0	0	a205
21	0	+	121	102	154	125	0	0	0	0	0	a220
22	0	0	125	106	154	139	122	0	0	0	0	195
23	0	0	139	121	159	154	163	0	0	0	0	206
24	0	0	139	117	144	159	135	0	0	0	0	195
25	0	0	144	114	154	196	114	0	0	0	0	190
26	0	63	154	421	139	178	139	104	0	0	0	111
27	0	26	154	38	139	168	130	125	0	0	0	0
28	0	e 0.4	154	125	144	168	135	144	0	0	0	36
29	0	e 0.6	144	114		193	130	159	0	0	0	102
30	0	e 0.8	144	155		252	149	154	0	0	0	101
31	0		144	190		246		154		0	0	
	0		3586.3		4205		3676		1536.1		0	
		1229.0		2674.8		2862.2		1298.2		0		2989
MEAN	0	41.0	116.	86.3	150.2	92.3	122.	41.9	51.2	0	0	99.6
ACRE-FEET	0	2440.	7110.	5300.	8340.	5680.	7290.	2570.	3050.	0	0	5930.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 65.9
ACRE-FEET 47,700.



STATION F262-R
SAN GABRIEL RIVER at Florence Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 33°56'20", LONG. 118°06'00", ON THE DOWNSTREAM SIDE OF THE FLORENCE AVENUE (FORMERLY EASY STREET) BRIDGE ABOUT TWO MILES EAST OF DOWNEY, ELEVATION OF ZERO GAGE HEIGHT, 102.01 FEET. (PUBLISHED IN ERROR AS 105.00 FEET 1951 TO 1957 INCLUSIVE.)

DRAINAGE AREA: 216.2 SQUARE MILES (CORRECTED TO 1961) (EXCLUSIVE OF AREA ABOVE SANTA FE DAM.)

CHANNEL AND CONTROL: SHIFTING SAND BOTTOM - TRAPEZOIDAL CHANNEL WITH BLACK-TOPPED EARTHEN LEVEES. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF FLORENCE AVENUE BRIDGE.

RECORDER: AN AU RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: SUBJECT TO THE SAME REGULATIONS AS STATION F2638-R, SAN GABRIEL RIVER AT BEVERLY BOULEVARD.

DIVERSIONS: THERE ARE SEVERAL DIVERSIONS FOR IRRIGATION, POWER DEVELOPMENT AND SPREADING. VARIABLE QUANTITIES OF IRRIGATION WASTE RETURNS ARE RECORDED AT THE STATION.

RECORDS AVAILABLE: FEBRUARY 27, 1937 TO MARCH 22, 1949, RECORDER RECORD LOST FROM AUGUST 19, 1938 TO NOVEMBER 23, 1938 DUE TO THEFT OF RECORDER. FOR EARLIER RECORDS SEE STATION F237-R SAN GABRIEL RIVER AT TELEGRAPH ROAD. RECORDER OUT MARCH 22, 1949 TO JANUARY 26, 1951. AVAILABLE FROM JANUARY 26, 1951 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 2210 SECOND-FEET JANUARY 12.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM 2940 SECOND-FEET JANUARY 26.
MINIMUM NO FLOW MOST OF YEAR.
1937-61
MAXIMUM NOT DETERMINED MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD, 15,960 SECOND-FEET FEBRUARY 22, 1944.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED AND CONSTRUCTED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT AND OPERATED IN COOPERATION WITH THE SAN GABRIEL VALLEY PROTECTIVE ASSOCIATION.

78D74M C4b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F262-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Florence Avenue, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	58	0	0	0	0	0	0	0
2	0	0	0	0	279	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	29	0	0	0	0	0	0	0
10	0	0	0	27	0	0	0	0	0	0	0	0
11	0	0	0	21	0	0	0	0	0	0	0	0
12	0	0	0	377	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	18	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	6.4	0	0	0	184	0	0	0	0	0
28	0	0	0	0	0	0	3.6	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		244		366.0		187.6		0		0	
		0		425.0		0		0		0		0
MEAN	0	0	0.79	13.7	12.6	0	6.25	0	0	0	0	0
ACRE-FEET	0	0	48.	843.	726.	0	372.	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 2.74
ACRE-FEET 1990.

78D74M C4b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

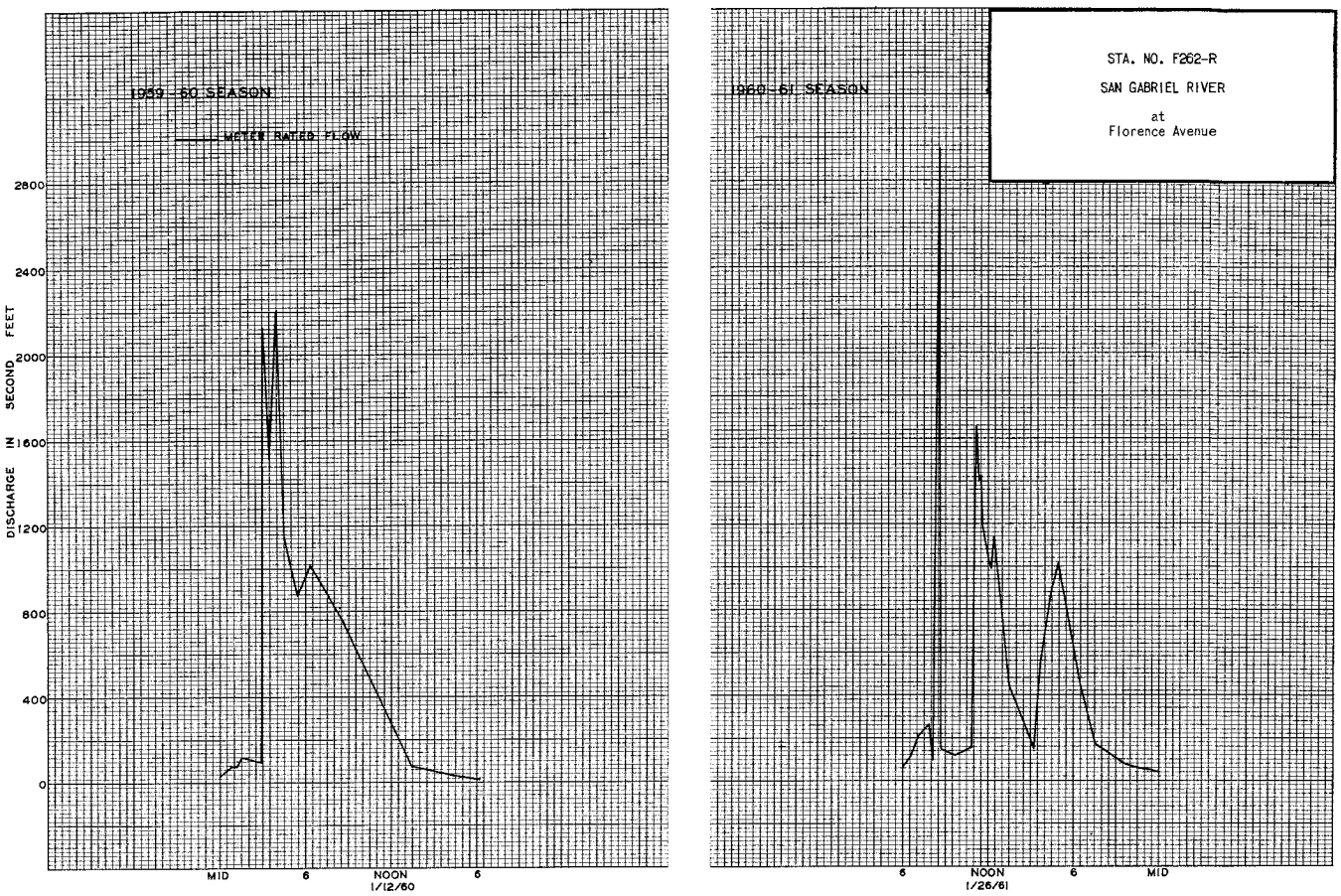
Sta. No. F262-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Florence Avenue, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	3.2	0	0	0	0	0	0	0	0	0
7	0	0	2.3	0	0	0	0	0	0	0	0	0
8	0	0	+	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	316	0	18	0	0	0	0	0	0
27	0	0	0	2.2	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		5.5		0		0		0		0	
		0		318.2		18		0		0		0
MEAN	0	0	.18	10.3	0	0.58	0	0	0	0	0	0
ACRE-FEET	0	0	11.	631.	0	36.	0	0	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.94
ACRE-FEET 678.



STATION F42-R
SAN GABRIEL RIVER at Spring Street, Long Beach

LOCATION: WATER-STAGE RECORDER. LAT. 33°48'38", LONG. 118°05'24". ON DOWN-STREAM SIDE OF SPRING STREET BRIDGE ABOUT FOUR MILES EAST OF SIGNAL HILL NEAR LONG BEACH. THIS STATION IS NEAR THE LOCATION OF THE STATION OPERATED IN 1924 BY THE STATE DIVISION OF WATER RIGHTS. ELEVATION OF ZERO GAGE GEIGHT, 12.25 FEET.

DRAINAGE AREA: 231.0 SQUARE MILES (CORRECTED TO 1961) (EXCLUSIVE OF AREA ABOVE SANTA FE DAM).

CHANNEL AND CONTROL: CHANNEL - SAND AND SILT OVER ADOBE BOTTOM. TRAPEZOIDAL CHANNEL WITH BLACK-TOPPED EARTHEN LEVEES. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM CABLE CAR 200 FEET ABOVE STATION.

RECORDER: A STEVENS TYPE A-35B RECORDER IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: SUBJECT TO SAME REGULATIONS AS STATION F262-R, SAN GABRIEL RIVER AT FLORENCE AVENUE.

DIVERSIONS: THERE ARE SEVERAL DIVERSIONS FOR IRRIGATION, POWER DEVELOPMENT AND SPREADING.

RECORDS AVAILABLE: FEBRUARY 6, 1928 TO MAY 4, 1951; APRIL 9, 1952 TO SEPTEMBER 30, 1961 (FOR PERIODS PRIOR TO FEBRUARY 1928, SEE STATE DIVISION OF WATER RIGHTS BULLETINS.)

EXTREMES OF DISCHARGE:

1959-60
MAXIMUM 2180 SECOND-FEET JANUARY 12.
MINIMUM NO FLOW MOST OF YEAR.

1960-61
MAXIMUM 1780 SECOND-FEET (ESTIMATED) JANUARY 26.
MINIMUM NO FLOW MOST OF YEAR.

1927-61
MAXIMUM 27,000 SECOND FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW MOST OF EACH YEAR.

OPERATION: OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, LOCATED BY THE STATE DIVISION OF WATER RIGHTS.

76D74M C4b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. FW2-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Spring Street, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	3.1	8.0	0	0	0	0	0	0
2	0	0	0	0	321	7.0	0	0	0	0	0	0
3	0	0	0	0	1.7	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	5.2	0	0	0	0	0	0	0
10	0	0	0	0	6.5	0	0	0	0	0	0	0
11	0	0	0	b 20	0.3	0	0	0	0	0	0	0
12	0	0	0	355	0	0	0	0	0	0	0	0
13	0	0	0	b 14	0	0	0	0	0	0	0	0
14	0	0	0	7.7	0	0	0	0	0	0	0	0
15	0	0	0	6.6	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	176	0	0	0	0	0
28	0	0	0	0	0	0	3.9	0	0	0	0	0
29	0	0	0	0	16	0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		0		353.8		179.9		0		0	
		0		390.7		15.0		0		0		0
MEAN	0	0	0	12.6	12.2	0.48	6.00	0	0	0	0	0
ACRE-FEET	0	0	0	775.	702.	30.	357.	0	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 2.57
ACRE-FEET 1860.

76D74M C4b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

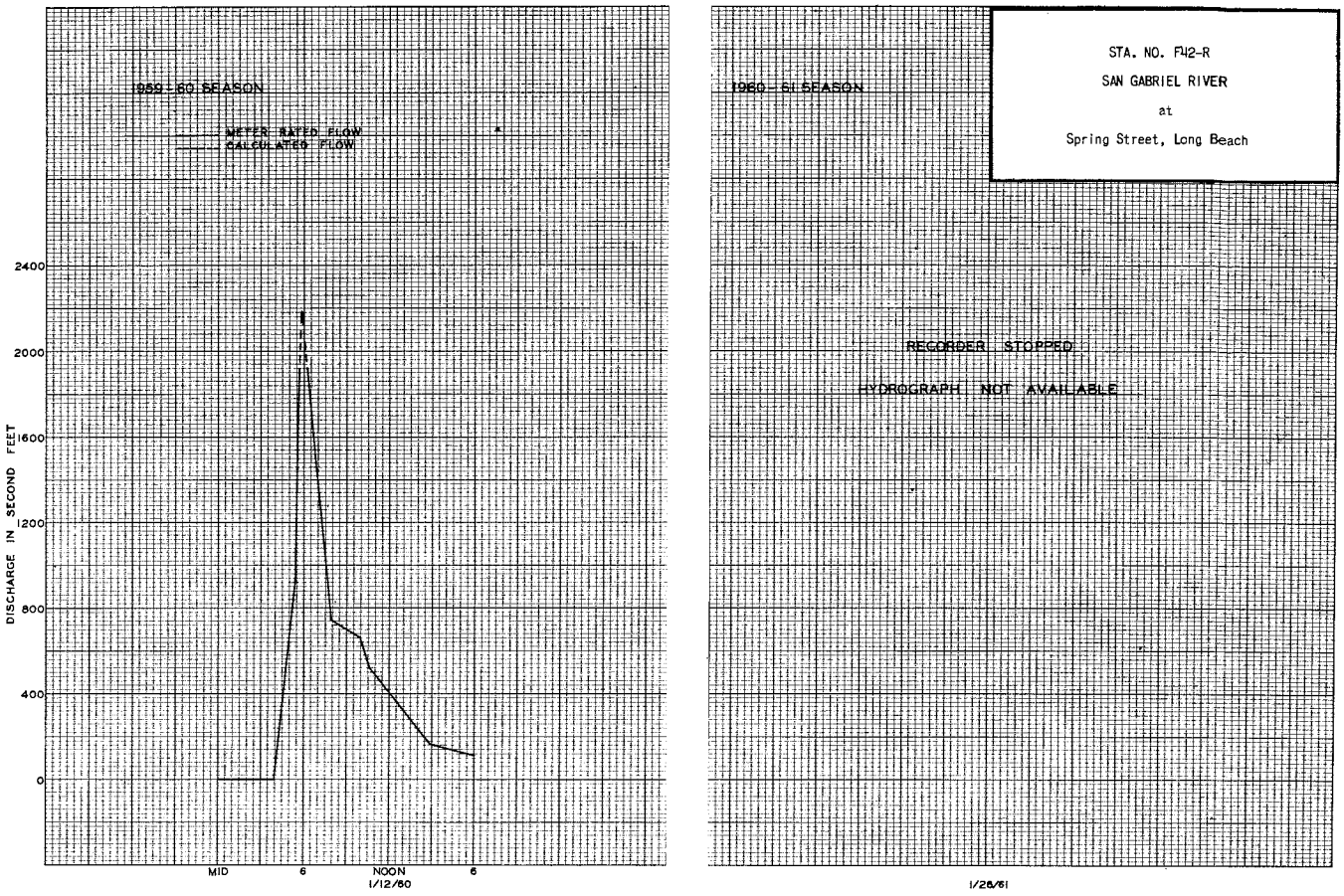
Sta. No. FW2-R

Daily discharge, in second-feet of SAN GABRIEL RIVER at Spring Street, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	+	0	b 204	0	0	0	0	0	0	0	0
27	0	0	0	22	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		0		0		0		0		0	
		+		226		0		0		0		0
MEAN	0	+	0	7.29	0	0	0	0	0	0	0	0
ACRE-FEET	0	+	0	448.	0	0	0	0	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.62
ACRE-FEET 448.



STATION F312-R
SAN JOSE CHANNEL above Workman Mill Road

LOCATION: WATER-STAGE RECORDER, LAT. 34°01'55", LONG. 118°06'39", ON THE RIGHT (NORTH) BANK 1650 FEET ABOVE THE WORKMAN MILL ROAD BRIDGE. ELEVATION OF ZERO GAGE HEIGHT 248.52 FEET ABOVE MEAN SEA LEVEL.

DRAINAGE AREA: 83.4 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL, TRAPEZOIDAL WITH EARTHEN BOTTOM AND GROUTED SLOPES, 147.5 FEET BOTTOM WIDTH AND 225.0 FEET TOP WIDTH. BANKS ARE 2.3 TO 1.0 SLOPE. THERE IS A ROCK STABILIZER BELOW THE STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS ARE MEASURED FROM A CABLE CAR 25 FEET ABOVE STATION.

RECORDER: A STEVENS TYPE A-35 RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: PARTIALLY REGULATED BY THOMPSON CREEK DAM.

DIVERSIONS: DIVERSION UPSTREAM DESIGNED FOR APPROXIMATELY THE FIRST 200 SECOND-FEET OF FLOW TO GO INTO SAN JOSE CREEK.

RECORDS AVAILABLE: SEPTEMBER 13, 1955 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 1380 SECOND-FEET APRIL 27.
MINIMUM NO FLOW PART OF YEAR.
1960-61
MAXIMUM 429 SECOND-FEET JANUARY 26.
MINIMUM NO FLOW MOST OF YEAR.
1955-61
MAXIMUM 5180 SECOND-FEET JANUARY 26, 1956.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: FAIR.

REMARKS: POMONA SEWER PLANT RELEASES SOME FLOW TO SAN JOSE CREEK ABOVE SPADRA.

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

F6D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F312-R

Daily discharge, in second-feet of SAN JOSE CHANNEL above Workman Mill Road, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b 0.1	1.0	1.8	2.3	86	15	5.1	b 2.5	+	0	0	0
2	0.1	1.2	2.0	1.9	87	5.1	3.3	2.0	—	0	0	0
3	0.1	1.3	2.2	2.2	3.5	4.5	3.9	1.5	—	0	0	0
4	0.1	0.9	1.6	2.6	2.6	4.1	4.7	1.0	+	0	0	0
5	0.1	1.0	1.4	2.5	b 1.3	4.3	5.3	1.0	0	0	0	0
6	0.1	b 1.0	1.7	4.5	b 1.2	4.5	5.1	1.0	0	0	0	0
7	0.1	1.0	2.5	4.1	b 1.1	4.7	4.9	0.9	+	0	0	0
8	0.1	1.0	2.2	3.5	17	5.1	4.7	0.9	0.4	0	0	0
9	0.1	1.0	2.9	3.5	32	5.9	4.5	0.9	0.1	0	0	0
10	0.2	1.0	1.5	110	21	5.3	4.5	0.8	0.4	0	0	0
11	0.3	1.0	1.5	19	0.9	5.3	3.5	0.8	0.6	0	0	0
12	0.3	b 1.0	1.4	203	0.9	5.1	3.7	0.8	0.5	0	0	0
13	0.3	1.6	1.6	6.4	1.7	5.6	3.2	0.8	0.9	0	0	0
14	0.3	1.4	1.7	23	2.9	5.1	3.0	0.8	0.4	0	0	0
15	0.3	1.5	2.6	10	3.3	5.6	2.0	0.8	1.2	0	0	0
16	b 0.4	1.1	2.2	3.3	4.1	4.1	1.0	0.7	0.7	0	0	0
17	1.1	1.1	2.6	3.5	4.5	4.9	0.9	0.7	0.5	0	0	0
18	1.2	1.2	1.9	3.5	4.9	4.7	0.7	0.7	0.7	0	0	0
19	1.2	1.9	1.8	4.7	4.9	4.9	0.8	0.7	1.1	0	0	0
20	1.5	1.9	1.8	3.9	4.9	4.3	1.0	0.7	1.5	0	0	0
21	1.7	1.9	16	3.3	5.1	4.3	1.4	0.6	1.0	0	0	0
22	1.7	1.9	4.3	4.7	4.7	4.7	1.0	0.1	1.7	0	0	0
23	1.7	2.0	11	4.1	5.6	4.3	0.7	+	+	0	0	0
24	1.5	2.2	70	3.7	5.3	3.9	0.8	0	+	0	0	0
25	1.8	2.7	68	11	5.6	4.1	0.6	0	0	0	0	0
26	1.5	2.9	2.3	12	5.3	4.1	0.6	0	0	0	0	0
27	1.9	2.9	1.4	4.1	3.7	3.5	253	0.8	0	0	0	0
28	1.8	2.5	1.5	3.3	9.0	56	112	0.8	0	0	0	0
29	1.9	1.9	2.0	3.2	49	7.0	b 4.1	0.8	0	0	0	0
30	1.9	1.6	2.7	2.7		6.7	b 3.2	0.8	0	0	0	0
31	1.1		2.5	2.5		8.1		b 0.8		0	0	
	25.5		210.7		379.0		343.2		11.7		0	
		46.6		472.0		214.8		24.7		0		0
MEAN	0.82	1.55	6.80	15.2	13.1	693.	11.4	0.80	0.39	0	0	0
ACRE-FEET	51.	92.	418.	936.	752.	426.	681.	49.	23.	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 4.72
ACRE-FEET 3430.

F6D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

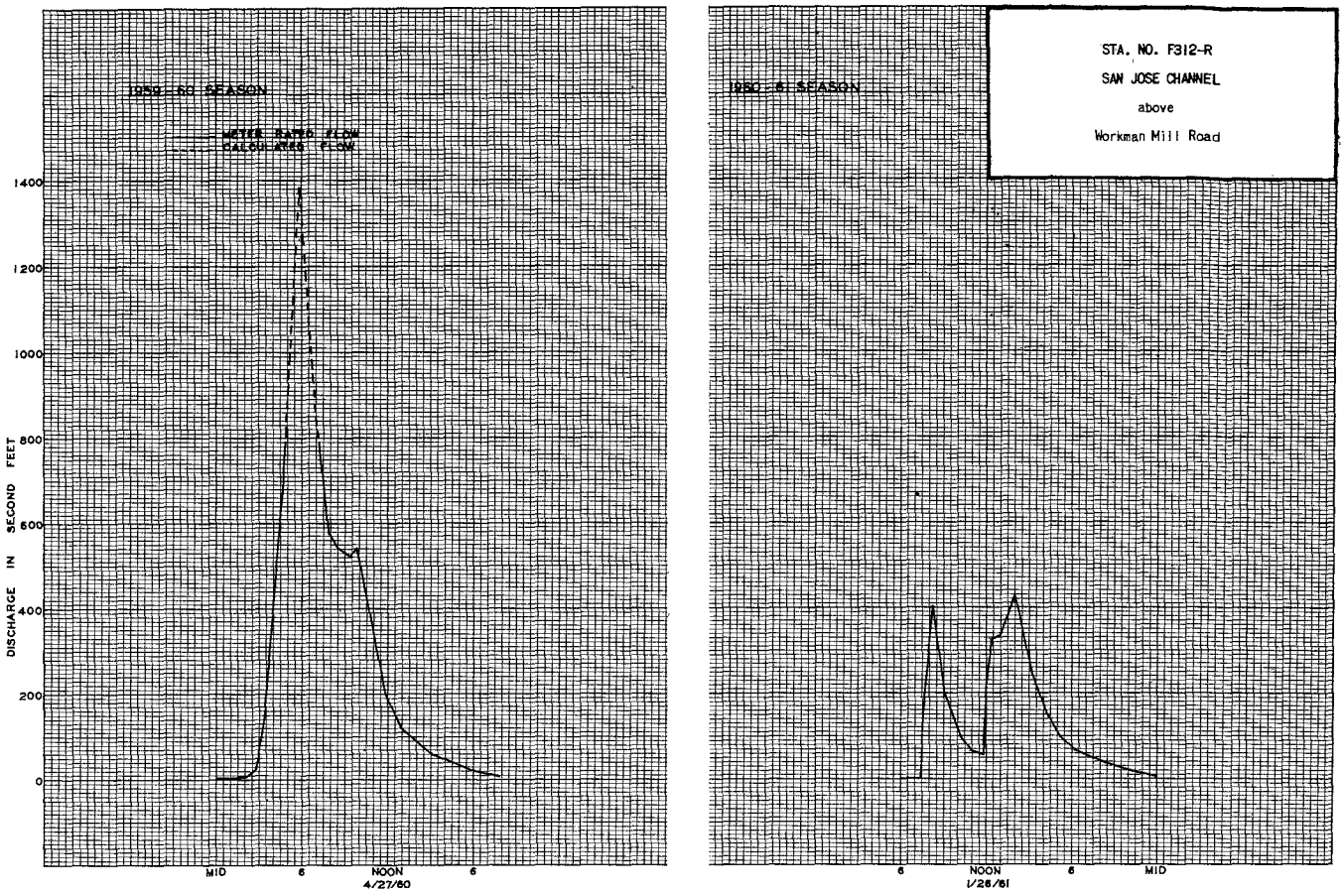
Sta. No. F312-R

Daily discharge, in second-feet of SAN JOSE CHANNEL above Workman Mill Road, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	+	0	+	0	0	0	0	0	0	0
2	0	0	—	0	—	0	0	0	0	0	0	0
3	0	4.5	—	0	—	0	0	0	0	0	0	0
4	0	8.3	—	0	—	0	0	0	0	0	0	0
5	0	11	—	0	—	0	0	0	0	0	0	0
6	0	14	—	0	—	0	0	0	0	0	0	0
7	0	b 0.4	—	0	+	0	0	0	0	0	0	0
8	0	b +	+	0	0	0	0	0	0	0	0	0
9	0	—	0	0	0	0	0	0	0	0	0	0
10	11	—	0	0	0	0	0	0	0	0	0	0
11	+	+	0	0	0	0	0	0	0	0	0	0
12	0	1.5	0	0	0	0	0	0	0	0	0	0
13	0	0.5	0	0	0	0	0	0	0	0	0	0
14	0	+	0	0	0	0	0	0	0	0	0	0
15	0	—	0	0	0	7.6	0	0	0	0	0	0
16	0	—	0	0	0	0.7	0	0	0	0	0	0
17	0	—	0	0	0	0	0	0	0	0	0	0
18	0	—	0	0	0	0	0	0	0	0	0	0
19	0	+	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	1.5	0	0	0	0	0	0	0	0	0	0	0
24	0.7	0	0	0	0	0	0	0	0	0	0	0
25	+	0	0	0	0	0	0	0	0	0	0	0
26	—	35	0	103	0	0	0	0	0	0	0	0
27	—	34	0	0.5	0	0	0	0	0	0	0	0
28	+	+	0	+	0	0	0	0	0	0	0	0
29	0	+	0	—		0	0	0	0	0	0	0
30	0	+	0	—		0	0	0	0	0	0	0
31	0		0	+		0		0		0	0	
	132						0		0		0	
		78.6		103.5		8.3		0		0		0
MEAN	0.43	2.62	+	3.40	+	0.27	0	0	0	0	0	0
ACRE-FEET	26.	156.	+	205.	+	16.	0	0	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.56
ACRE-FEET 403.



STATION F48-R
SAN JOSE CREEK at Workman Mill Road

LOCATION: WATER-STAGE RECORDER, LAT. 34°01'24", LONG. 118°02'05", ON THE DOWNSTREAM SIDE OF WORKMAN MILL ROAD BRIDGE, ABOUT THREE MILES NORTH OF WHITTIER. THIS STATION IS NEAR THE LOCATION OF THE STATION OPERATED FROM 1923 TO 1929 BY THE STATE DIVISION OF WATER RIGHTS. ELEVATION OF ZERO GAGE HEIGHT 213.46 FEET. (GAGE LOWERED 1.39 FEET SEPTEMBER 16, 1952.)

DRAINAGE AREA: CONTROLLED BY DIVERSION TO SAN JOSE CHANNEL.

CHANNEL AND CONTROL: CHANNEL - CLAY, SAND AND GRAVEL. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING.

RECORDER: AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY THOMPSON CREEK DAM.

DIVERSIONS: SMALL DIVERSION FOR SPREADING (SEE STATION F276-R). SAN JOSE CHANNEL DIVERTS ALL STORM FLOWS EXCEPT APPROXIMATELY THE FIRST 200 CFS.

RECORDS AVAILABLE: JANUARY 2, 1929 TO SEPTEMBER 30, 1961. (FOR RECORDS PRIOR TO JANUARY 2, 1929, SEE STATE DIVISION OF WATER RIGHTS BULLETINS.)

REMARKS: DIVERSION UPSTREAM, CONSTRUCTED IN 1955, DESIGNED FOR ALL FLOW OVER 200 SECOND-FEET TO GO INTO SAN JOSE CHANNEL. IT IS NECESSARY TO COMBINE RECORDS OF STATIONS F48-R AND F312-R SAN JOSE CHANNEL AFTER OCTOBER 1, 1955, TO ARRIVE AT FLOW CONDITIONS PRIOR TO THIS DATE.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 18 SECOND-FEET JANUARY 11.
MINIMUM 0.4 SECOND-FEET AT VARIOUS TIMES.
1960-61
MAXIMUM 133 SECOND-FEET NOVEMBER 6.
MINIMUM 0.2 SECOND-FEET AT VARIOUS TIMES.
1928-61
MAXIMUM 13,100 SECOND-FEET JANUARY 1, 1934.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD FOR LOW FLOWS.

REMARKS: POMONA SEWER PLANT RELEASES SOME FLOW TO SAN JOSE CREEK ABOVE SPADRA.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

7ADT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F48-R

Daily discharge, in second-feet of SAN JOSE CREEK at Workman Mill Road, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.9	0.8	0.9	3.5	3.2	1.8	2.1	3.5	2.7	2.2	0.6	0.8
2	1.2	0.9	0.9	3.1	1.3	1.7	2.0	3.1	2.4	2.2	0.5	0.9
3	0.7	1.3	0.9	2.4	1.3	a 1.7	2.0	3.2	2.2	2.2	0.4	0.9
4	0.8	1.4	0.9	1.6	1.3	1.7	2.1	3.2	2.1	2.0	0.5	0.8
5	0.7	0.8	0.9	1.6	1.3	1.6	2.1	3.0	1.8	2.1	0.6	0.8
6	0.9	0.9	0.9	1.5	1.2	1.6	2.4	2.8	1.7	2.2	0.8	0.8
7	1.5	1.0	1.0	1.6	1.1	1.6	2.7	3.0	2.0	1.7	1.0	0.8
8	a 2.1	1.2	1.0	1.6	4.3	1.6	2.7	3.0	2.2	1.2	1.0	0.7
9	2.4	1.7	1.0	1.4	5.0	1.6	2.7	3.0	2.4	1.0	1.0	0.7
10	2.3	1.2	1.0	1.8	3.8	a 1.6	2.4	3.1	2.7	0.8	0.9	0.7
11	2.3	1.4	1.0	2.5	5.6	1.6	2.1	3.3	3.0	0.6	0.8	0.7
12	2.2	2.3	0.8	5.1	4.4	1.5	2.3	3.2	3.1	0.6	0.7	0.7
13	2.2	1.7	0.8	3.5	4.0	1.4	2.2	3.3	3.3	0.5	0.6	0.7
14	a 2.1	0.8	0.8	3.3	1.6	1.4	1.9	3.5	3.3	0.4	0.6	0.8
15	2.1	0.6	0.7	3.1	1.5	1.2	2.0	3.8	2.6	0.5	0.6	0.8
16	2.3	0.5	0.6	2.7	3.2	1.2	2.0	3.3	2.3	0.7	0.6	0.9
17	1.0	0.4	0.6	2.3	3.1	1.2	2.0	3.1	2.0	0.7	0.6	0.8
18	0.7	0.4	0.5	1.9	2.8	1.2	4.2	2.7	2.1	0.8	0.6	0.7
19	0.7	0.4	0.5	2.0	2.0	1.2	5.4	2.6	2.0	0.8	0.7	0.6
20	0.6	0.6	0.5	1.7	1.5	1.2	5.4	2.7 e	2.0	1.0	0.7	0.4
21	0.6	0.7	0.5	1.7	1.4	1.4	5.6	3.2 e	2.0	1.0	0.8	0.4
22	0.6	0.8	0.7	1.8	1.3	1.4	5.6	3.3	2.0	0.9	0.7	0.4
23	0.6	0.8	2.0	1.8	1.4	1.4	3.8	3.0	2.2	0.9	0.7	0.4
24	0.5	0.8	4.4	1.8	1.2	1.5	3.1	2.8	2.3	0.9	0.6	0.5
25	0.5	0.9	4.0	2.1	1.2	1.7	2.8	3.0	2.4	0.9	0.6	0.6
26	0.5	0.9	3.3	2.7	1.2	1.7	2.0	3.2	2.4	1.0	0.5	0.6
27	0.6	0.8	3.3	2.6	1.2	1.6	9.2	3.8	2.3	1.0 b	0.5	0.7
28	1.8	0.8	3.2	2.6	1.4	2.3	7.8	3.8	2.2	1.0	0.6	0.8
29	3.1	0.6	3.8	2.4	2.0	2.8	5.0	3.5	2.1	0.9	0.7	0.9
30	1.8	0.8	4.0	2.4		2.3	3.8	3.5	2.0	0.8	0.8	0.9
31	0.8		3.6	2.4		2.1		3.2		0.7	0.9 b	
	42.1		49.0		65.8		101.4		69.8		21.2	
		28.4		72.5		49.8		98.7		34.2		21.2
MEAN	1.36	0.95	1.58	2.34	2.27	1.61	3.38	3.18	2.33	1.10	0.68	0.71
ACRE-FEET	84.	56.	97.	144.	131.	99.	201.	196.	138.	68.	42.	42.

Remarks:

YEAR MEAN 1.79
OR
PERIOD ACRE-FEET 1300.

7ADT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

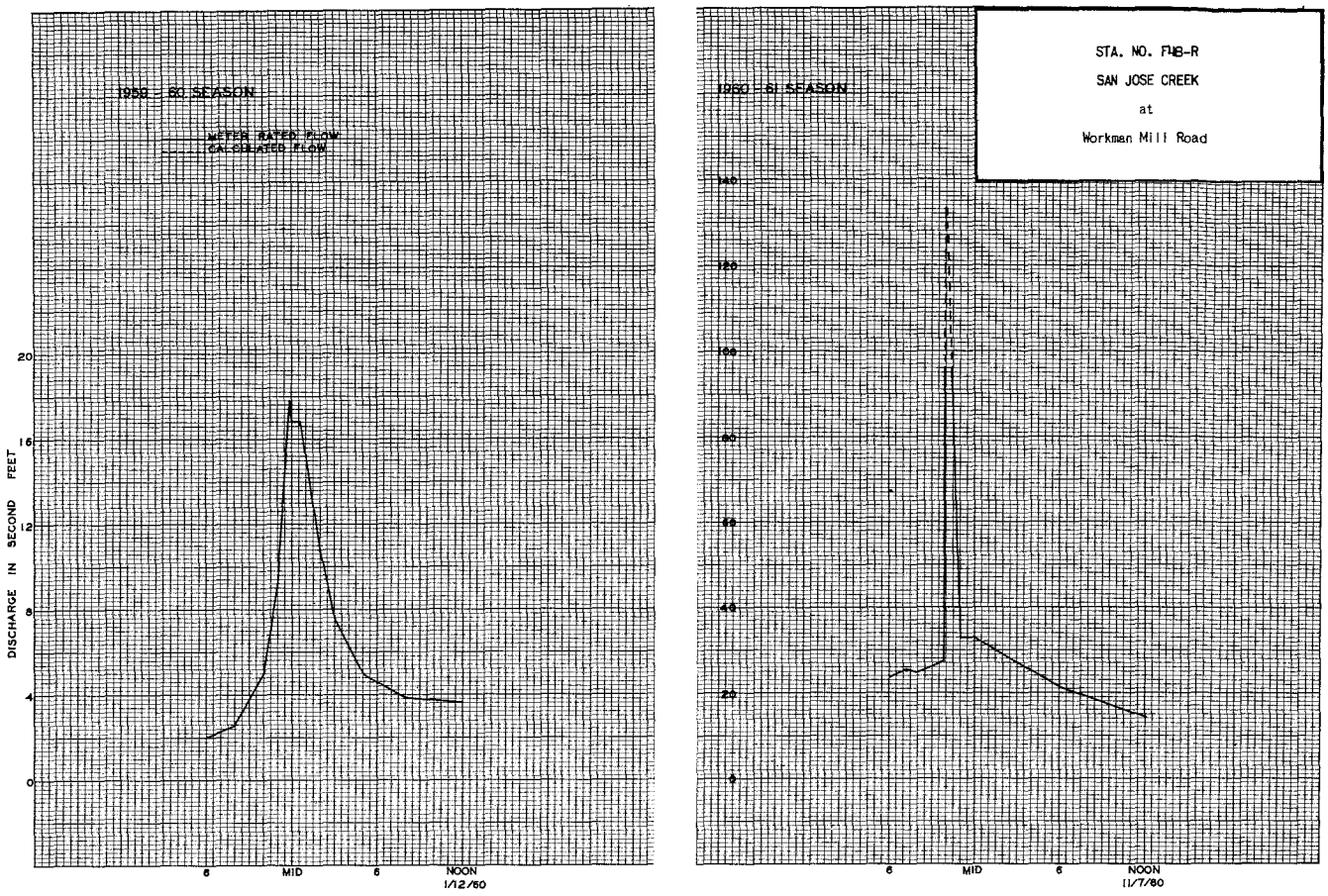
Sta. No. F48-R

Daily discharge, in second-feet of SAN JOSE CREEK at Workman Mill Road, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.8	a 3.0	4.1	5.2	5.4	3.6	3.3	0.6	0.6	0.6	0.8	0.8
2	0.8	a 3.3	10	5.4	5.6	3.5	4.2	0.6	0.6	0.6	1.0	0.8
3	0.7	a 3.9	5.9	5.6	5.6	3.3	3.0	b 0.6	0.6	0.6	1.2	0.7
4	0.6	a 2.0	5.2	6.1	5.2	3.8	3.8	b 0.6	0.6	0.5	1.1	0.6
5	0.5	9.8	5.0	5.6	5.0	4.6	5.0	0.6	0.5	0.5	1.0	0.5
6	0.5	2.8	3.3	4.2	5.4	5.2	2.7	0.6	0.4	0.6	0.9	0.5
7	0.5	1.6	4.4	4.8	6.1	4.0	2.3	0.7	0.4	0.6	0.8	0.6
8	0.6	5.9	5.0	4.8	6.1	2.6	1.9	0.6	0.4	0.6	0.8	0.7
9	0.6	3.3	5.2	5.4	6.4	2.1	1.8	0.6	0.4	0.6	0.7	0.7
10	6.8	4.4	5.0	5.6	7.0	2.1	1.2	0.6	0.4	0.6	0.7	0.8
11	8.5	3.3	5.0	4.6	7.0	3.1	b 1.1	0.6	0.4	0.6	0.7	0.8
12	3.8	7.9	4.6	3.2	3.8	2.4	b 0.9	0.6	0.5	0.6	0.7	0.8
13	3.5	18	4.8	3.5	4.4	4.2	0.7	0.6	0.6	0.5	0.7	0.7
14	3.8	5.0	4.8	5.4	5.2	4.2	0.7	b 0.6	0.7	0.5	0.8	0.7
15	4.0	5.0	5.0	4.8	5.4	1.3	0.6	0.5	0.8	0.5	1.0	0.6
16	3.0	3.8	5.4	5.2	5.4	1.1	0.6	0.5	0.8	0.4	1.0	0.7
17	3.1	3.8	4.8	4.0	5.0	3.2	0.6	0.4	0.7	b 0.4	1.0	0.6
18	3.3	3.6	4.4	3.2	5.4	3.1	0.6	b 0.4	0.7	b 0.3	1.0	0.7
19	3.5	3.3	4.4	2.8	4.8	1.9	0.6	0.4	0.6	b 0.3	1.0	0.7
20	3.2	2.6	4.4	3.2	5.0	1.7	0.6	0.4	0.6	0.2	1.0	0.7
21	2.3	2.4	5.0	3.6	5.0	1.5	0.6	0.5	0.6	0.2	1.0	0.7
22	3.1	3.5	4.8	5.0	3.6	2.1	0.6	0.5	0.6	0.3	1.0	0.7
23	2.7	3.2	4.6	5.9	3.3	2.6	1.2	0.5	0.5	0.3	1.0	0.6
24	2.6	5.6	4.6	5.9	2.8	2.1	0.8	0.6	0.5	0.4	0.9	0.6
25	3.2	5.0	4.4	6.7	3.0	2.8	0.7	0.6	0.4	0.4	0.9	0.6
26	3.6	12	3.3	26	3.6	3.0	0.7	0.6	0.4	0.4	0.8	0.5
27	a 3.0	18	3.6	18	4.8	2.6	0.7	0.6	0.4	0.4	0.7	0.4
28	2.7	4.0	5.2	5.0	4.8	8.6	0.6	0.6	0.4	0.5	0.8	0.4
29	3.0	3.6	4.6	4.8		5.2	0.6	0.6	0.5	0.6	0.8	0.4
30	2.7	4.0	5.4	4.0		3.3	0.6	0.6	0.6	0.6	0.8	0.4
31	a 2.8		5.2	4.4		2.7		0.6		0.7	0.8	
	83.8		151.4		140.1		43.3		16.2		27.4	
		215.2		181.9		119.1		17.4		14.9		19.0
MEAN	2.70	7.17	4.88	5.87	5.00	3.84	1.44	0.56	0.54	0.48	0.88	0.63
ACRE-FEET	166.	427.	300.	361.	278.	236.	86.	34.	32.	30.	54.	38.

Remarks:

YEAR MEAN 2.82
OR
PERIOD ACRE-FEET 2040.



STATION U4-R

SANTA ANITA CREEK above Santa Anita Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°11'30", LONG. 118°00'59", IN SW 1/4, NE 1/4, NE 1/4, SEC. 10, T.1N, R.11W, ON RIGHT BANK, AT HEAD OF HERMITS FALLS, 0.9 MILE UPSTREAM FROM BIG SANTA ANITA DAM AND THREE MILES NORTHEAST OF SIERRA MADRE. ALTITUDE OF GAGE 1475.3 FEET ABOVE MEAN SEA LEVEL.

DRAINAGE AREA: 10.5 SQUARE MILES.

RECORDS AVAILABLE: JULY 1916 TO SEPTEMBER 1961.

AVERAGE DISCHARGE: 45 YEARS, 5.60 SECOND-FEET.

EXTREMES OF DISCHARGE:

1959-60
- MAXIMUM 17 SECOND-FEET FEBRUARY 1, (GAGE HEIGHT 1.57 FEET).
- MINIMUM DAILY 0.2 SECOND-FOOT SEVERAL DAYS.

1960-61
- MAXIMUM 60 SECOND-FEET NOVEMBER 5, (GAGE HEIGHT 2.18 FEET).
- MINIMUM DAILY 0.1 SECOND-FOOT SEVERAL DAYS.

1916-59
- MAXIMUM DISCHARGE, ABOUT 5200 SECOND-FEET MARCH 2, 1938, BASED ON INFLOW TO BIG SANTA ANITA RESERVOIR.
- MINIMUM PRACTICALLY NO FLOW AUGUST 18 TO SEPTEMBER 14, 1929.

REMARKS: RECORDS GOOD, NO DIVERSIONS ABOVE STATION.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH. THIRTY-TWO DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

7EDT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U4-R

Daily discharge, in second-feet of SANTA ANITA CREEK above Santa Anita Dam, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	1.0	1.1	1.2	4.3	4	1.7	1.9	1.3	0.4	0.3	0.3
2	1.0	1.0	1.1	1.2	7.6	3.5	1.6	1.9	1.3	0.4	0.3	0.3
3	0.9	0.9	1.0	1.2	3.8	3.4	1.6	1.9	1.3	0.4	0.3	0.2
4	0.8	0.9	1.0	1.2	2.9	3.3	1.4	1.9	1.3	0.5	0.3	0.2
5	0.7	0.9	0.9	1.2	2.6	3.1	1.4	1.9	1.4	0.5	0.3	0.2
6	0.7	0.9	0.9	1.2	2.6	3.1	1.4	1.7	1.5	0.5	0.3	0.2
7	0.7	0.8	0.9	1.3	2.5	2.6	1.4	1.6	1.5	0.5	0.3	0.2
8	0.7	0.7	0.9	1.3	4.4	2.6	1.5	1.5	1.4	0.5	0.3	0.2
9	0.6	0.7	0.9	1.4	5.7	2.6	1.5	1.5	1.3	0.4	0.3	0.2
10	0.6	0.8	0.9	6.1	4.4	2.5	1.5	1.5	1.2	0.4	0.3	0.2
11	0.6	0.8	0.9	4.0	3.6	2.5	1.5	1.5	1.2	0.4	0.3	0.2
12	0.6	0.8	0.9	7.0	3.1	2.3	1.6	1.4	1.0	0.4	0.3	0.2
13	0.6	0.9	1.2	3.3	3.1	2.3	1.6	1.4	0.9	0.4	0.3	0.2
14	0.6	0.9	1.8	3.3	2.9	2.3	1.6	1.5	0.9	0.4	0.3	0.3
15	0.6	1.0	1.9	4.0	2.9	2.2	1.6	1.6	1.0	0.3	0.3	0.3
16	0.6	1.1	1.8	2.9	2.9	2.2	1.5	1.6	1.0	0.3	0.3	0.3
17	0.6	1.1	1.9	2.6	2.9	2.1	1.5	1.6	1.0	0.3	0.3	0.3
18	0.6	1.1	1.7	2.2	2.8	2.1	1.5	1.6	0.9	0.3	0.3	0.3
19	0.7	1.1	1.7	2.1	2.8	1.9	1.3	1.5	0.8	0.3	0.2	0.3
20	0.8	1.1	1.8	1.9	2.8	1.9	1.3	1.4	0.9	0.3	0.2	0.3
21	0.8	1.1	2.2	1.9	2.8	1.9	1.3	1.4	0.8	0.3	0.2	0.3
22	0.8	0.9	2.1	1.9	2.8	1.9	1.6	1.3	0.7	0.3	0.2	0.3
23	0.8	0.8	2.1	1.9	2.6	1.9	1.5	1.4	0.7	0.3	0.3	0.3
24	0.8	0.8	3.3	1.8	2.6	1.9	1.5	1.4	0.7	0.3	0.4	0.2
25	0.7	0.9	2.1	2.7	2.6	1.9	1.4	1.4	0.7	0.3	0.4	0.2
26	1.1	0.9	1.5	2.9	2.6	1.9	1.4	1.4	0.6	0.3	0.4	0.2
27	1.1	0.9	1.3	2.3	2.6	2.1	5.6	1.3	0.6	0.3	0.3	0.2
28	1.2	0.9	1.3	2.2	3	2.6	4.3	1.3	0.6	0.3	0.3	0.2
29	1.1	1.0	1.3	2.1	5	1.9	3.4	1.3	0.5	0.3	0.3	0.2
30	1.1	1.1	1.4	1.9		1.8	2.5	1.3	0.5	0.3	0.3	0.3
31	1.0		1.4	1.9		1.7		1.3		0.3	0.3	
	24.6	27.8	45.2	74.1	97.2	74.0	54.5	47.2	29.5	11.2	9.2	7.3
MEAN	0.79	0.93	1.46	2.39	3.35	2.39	1.82	1.52	0.98	0.36	0.30	0.24
ACRE-FEET	49.	55.	90.	147.	193.	147.	108.	94.	59.	22.	18.	14.

Remarks:

YEAR OR PERIOD MEAN 1.37
ACRE-FEET 996.

7EDT4M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U4-R

Daily discharge, in second-feet of SANTA ANITA CREEK above Santa Anita Dam, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.3	0.3	1.2	0.9	1.4	0.8	1.0	0.5	0.5	0.2	0.2	0.1
2	0.3	0.4	1.4	0.9	1.4	0.8	0.8	0.5	0.5	0.2	0.1	0.1
3	0.3	1.1	1.2	0.8	1.4	0.8	0.7	0.6	0.4	0.3	0.1	0.1
4	0.2	1.0	1.1	0.8	1.4	0.9	0.6	0.8	0.4	0.3	0.1	0.1
5	0.2	8.8	1.0	0.8	1.3	0.9	0.8	0.8	0.4	0.3	0.1	0.1
6	0.2	3.8	1.0	0.8	1.3	0.9	1.1	0.7	0.4	0.3	0.1	0.1
7	0.3	1.9	1.0	0.7	1.3	0.9	1.0	0.7	0.4	0.2	0.1	0.1
8	0.3	1.2	1.0	0.8	1.3	0.8	0.9	0.6	0.4	0.2	0.1	0.1
9	0.4	1.0	1.0	0.8	1.3	0.8	0.8	0.5	0.5	0.2	0.1	0.1
10	0.5	1.0	1.1	0.8	1.2	0.8	1.0	0.5	0.5	0.2	0.1	0.1
11	0.6	1.0	1.2	0.8	1.2	0.8	1.0	0.5	0.5	0.2	0.1	0.1
12	0.5	5.2	1.3	0.8	1.1	0.8	1.0	0.5	0.5	0.2	0.1	0.1
13	0.5	3.6	1.3	0.7	1.1	0.8	1.0	0.5	0.5	0.2	0.1	0.1
14	0.5	1.4	1.2	0.7	1.0	0.8	1.0	0.5	0.4	0.2	0.1	0.1
15	0.5	1.2	1.2	0.7	1.0	1.4	0.8	0.5	0.4	0.2	0.1	0.2
16	0.5	1.1	1.2	0.7	1.0	1.2	0.7	0.6	0.3	0.2	0.1	0.2
17	0.5	1.0	1.1	0.7	1.0	1.0	0.6	0.6	0.3	0.2	0.1	0.2
18	0.4	1.0	1.0	0.7	1.0	1.0	0.7	0.6	0.3	0.2	0.1	0.2
19	0.4	1.0	1.0	0.6	1.0	0.9	0.8	0.6	0.3	0.1	0.1	0.2
20	0.3	1.0	1.0	0.7	0.9	0.8	0.8	0.6	0.3	0.1	0.1	0.2
21	0.3	0.9	1.0	0.7	0.8	0.8	0.8	0.6	0.3	0.2	0.1	0.2
22	0.3	0.9	1.0	0.7	0.7	0.9	1.2	0.6	0.3	0.2	0.1	0.3
23	0.3	1.0	1.0	0.7	0.7	1.0	1.0	0.6	0.3	0.2	0.1	0.3
24	0.3	1.0	1.0	0.7	0.7	1.3	0.7	0.6	0.2	0.2	0.1	0.3
25	0.3	0.9	0.9	0.8	0.7	1.9	0.7	0.6	0.2	0.2	0.1	0.2
26	0.3	2.0	0.9	9.3	0.7	1.1	0.7	0.6	0.2	0.2	0.1	0.2
27	0.3	1.7	0.9	2.6	0.7	1.1	0.6	0.5	0.2	0.2	0.1	0.2
28	0.3	1.3	0.9	1.7	0.7	1.2	0.5	0.6	0.2	0.2	0.1	0.2
29	0.3	1.3	0.9	1.5		1.1	0.5	0.5	0.2	0.2	0.1	0.2
30	0.3	1.2	0.9	1.5		1.0	0.5	0.5	0.2	0.2	0.1	0.2
31	0.3		0.9	1.4		1.0		0.5		0.2	0.1	
	11.0	50.2	32.8	36.8	29.3	30.3	24.3	17.9	10.5	6.4	3.2	4.9
MEAN	0.35	1.67	1.06	1.19	1.05	0.98	0.81	0.58	0.35	0.21	0.10	0.16
ACRE-FEET	22.	100.	65.	73.	58.	60.	48.	36.	21.	13.	6.3	9.7

Remarks:

YEAR OR PERIOD MEAN 0.71
ACRE-FEET 512.

STATION F119B-R
SANTA ANITA CREEK below Santa Anita Dam

LOCATION: WATER-STAGE RECORDER. LAT. 34°11'03", LONG. 118°01'07", ON THE LEFT (EAST) WALL OF THE CONCRETE OUTLET CHANNEL IMMEDIATELY BELOW SANTA ANITA DAM. THIS STATION MEASURES LOW FLOWS ONLY, MAJOR VALVE DISCHARGES PASS OVER STATION. ELEVATION OF GAGE ABOUT 1100 FEET.

DRAINAGE AREA: 10.8 SQUARE MILES.

CHANNEL AND CONTROL: RECTANGULAR CONCRETE CHANNEL WITH FLASHBOARD GATE CONTAINING A V-NOTCH WEIR. WEIR NOT IN USE DURING PERIOD OF THIS REPORT.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. NO FACILITIES FOR MEASURING OR RECORDING FLOWS OVER TEN SECOND-FEET.

RECORDER: AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW ENTIRELY REGULATED BY SANTA ANITA DAM.

DIVERSIONS: NONE.

RECORDS AVAILABLE: FEBRUARY 6, 1948 TO SEPTEMBER 30, 1961. EARLIER RECORDS ARE AVAILABLE FROM DAM OUTFLOW RECORDS AND STATION F119-R LOCATED APPROXIMATELY 1/4 MILE DOWNSTREAM. PERIODS WHEN RECORDER NOT OPERATING COMPUTED FROM DAM RECORDS.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 114 SECOND-FEET AUGUST 1.
MINIMUM 0.1 SECOND-FOOT PART OF YEAR
1960-61
MAXIMUM 19 SECOND-FEET JANUARY 28.
MINIMUM NO FLOW VARIOUS TIMES.
1948-61
MAXIMUM 478 SECOND-FEET JANUARY 16, 1952, AT STATION F119B-R
5070 SECOND-FEET MARCH 2, 1938 AT STATION F119-R.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD

REMARKS: DISCHARGE FOR THIS PERIOD FROM STREAM MEASUREMENTS AND OPERATION RECORDS AT SANTA ANITA DAM

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Cib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F119B-R

Daily discharge, in second-feet of SANTA ANITA CREEK below Santa Anita Dam, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2	0.05	0.05	0.05	0.05	10.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3	0.05	0.05	0.05	0.05	14.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1
4	0.05	0.05	0.05	0.05	12.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5	0.05	0.05	0.05	0.3	6.6	0.1	0.1	0.1	0.1	19.3	0.1	0.1
6	0.05	0.05	0.05	0.7	1.2	0.1	0.1	0.1	0.1	2.5	0.1	0.1
7	0.05	0.05	0.05	0.7	1.2	0.1	0.1	0.1	0.1	2.4	0.1	0.1
8	0.06	0.05	0.05	0.7	1.2	19.1	0.1	0.1	0.1	15.9	0.1	0.1
9	0.06	0.05	0.05	0.7	1.2	2.4	0.1	0.1	0.1	7.5	0.1	0.1
10	0.06	0.05	0.05	0.7	1.2	1.3	0.1	0.1	0.1	7.4	0.1	0.1
11	0.06	0.05	0.05	0.7	1.3	1.3	0.1	0.1	0.1	7.3	0.1	0.1
12	0.06	0.05	0.05	9.4	1.3	1.3	0.1	0.1	0.1	10.1	0.1	0.1
13	0.06	0.05	0.05	15.3	1.3	1.3	0.1	0.1	0.1	18.9	0.1	0.1
14	0.06	0.05	0.05	13.1	1.3	1.3	0.1	0.1	0.1	10.1	0.1	0.1
15	0.06	0.05	0.05	9.8	1.3	1.3	0.1	0.1	0.1	6.4	0.1	0.1
16	0.06	0.05	6.5	0.05	1.3	1.3	0.1	0.1	0.1	0.1	0.1	0.1
17	0.06	0.05	14.2	0.05	1.0	1.3	0.1	0.1	0.1	0.1	0.1	0.1
18	0.06	0.05	14.9	0.05	0.8	1.3	0.1	0.1	0.1	7.9	0.1	0.1
19	0.06	0.05	9.9	0.05	0.8	1.3	0.1	0.1	0.1	7.2	0.1	0.1
20	0.06	0.05	1.2	0.05	0.8	1.3	0.1	0.1	0.1	10.4	0.1	0.1
21	5.3	0.05	0.8	0.05	0.8	1.4	0.1	0.1	0.1	0.1	0.1	0.1
22	10.7	0.05	0.05	0.05	0.8	1.4	0.1	0.1	0.1	0.1	0.1	0.1
23	10.6	0.05	0.05	0.05	8.5	1.4	0.1	0.1	0.1	0.1	0.1	0.1
24	10.4	0.05	0.05	0.05	15.7	1.4	0.1	0.1	0.1	0.1	0.1	0.1
25	10.3	0.05	0.05	0.05	10.2	1.4	0.1	0.1	0.1	11.2	0.1	0.1
26	10.2	0.05	0.05	0.05	0.1	1.4	0.1	0.1	0.1	0.1	0.1	0.1
27	10.0	0.05	0.05	0.05	0.1	1.4	0.1	0.1	0.1	10.7	0.1	0.1
28	9.7	0.05	0.05	0.05	0.1	0.9	0.1	0.1	0.1	3.9	0.1	0.1
29	4.9	0.05	0.05	0.05	0.1	0.7	0.1	0.1	0.1	2.9	0.1	0.1
30	0.05	0.05	0.05	0.05		0.3	0.1	0.1	0.1	0.1	0.1	0.1
31	0.05		0.05	0.05		0.1		0.1		0.1	0.1	
	83.33		48.75		97.25		3.0		3.0		3.1	
		150		5310		699		31		2074		30
MEAN	2.69	.05	1.57	1.71	3.35	2.25	0.1	0.1	0.1	6.69	0.1	0.1
ACRE-FEET	165.	3.0	97.	105.	193.	139.	6.0	6.1	6.0	411.	6.1	6.0

Remarks:

YEAR OR PERIOD MEAN 1.57
ACRE-FEET 1140.

76D74M C1b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F119-R

Daily discharge, in second-feet of SANTA ANITA CREEK below Santa Anita Dam, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	0.1	0	0	0.1	0.1	0.1	0.1	0.1	+	+	+
2	0.1	0.1	0	0	0.1	0.1	0.1	0.1	0.1			
3	0.1	0.1	0	8.4	0.1	0.1	10.8	0.1	0.1			
4	0.1	0.1	0	12.0	0.1	0.1	15.8	0.1	0.1			
5	0.1	0.1	0	8.5	0.1	0.1	15.5	0.1	0.1			
6	0.1	0.1	0	0	0.1	0.1	7.6	0.1	0.1			
7	0.1	0	0	0	0.2	0.1	0.1	0.1	0.1			
8	0.1	0	0	0	0.2	0.1	0.1	0.1	0.1			
9	0.1	0	0	0	0.2	0.1	0.1	0.1	0.1			
10	0.1	0	0	0	0.2	0.1	0.1	0.1	0.1			
11	0.1	0	0	0	0.2	0.1	0.1	0.1	0.1			
12	0.1	0	0	0	0.2	0.1	0.1	0.1	0.1			
13	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1			
14	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1			
15	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1			
16	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1			
17	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1			
18	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1			
19	0.1	0	0	0	0.1	0.1	0.1	0.1	8.2			
20	0.1	0	0	0	0.1	0.1	0.1	0.1	13.7			
21	0.1	0	0	0	0.1	0.1	0.1	0.1	15.3			
22	0.1	0	0	0	0.1	0.1	0.1	0.1	7.4			
23	0.1	0	0	0	12.0	0.1	0.1	0.1	+			
24	0.1	0	0	0	15.0	0.1	0.1	0.1				
25	0.1	0	0	0	0.1	0.1	0.1	0.1				
26	0.1	0	0	0	0.1	0.1	0.1	0.1				
27	0.1	0	0	17.0	0.1	0.1	0.1	0.1				
28	0.1	0	0	19.0	0.1	0.1	0.1	0.1				
29	0.1	0	0	0.1		0.1	0.1	0.1				
30	0.1	0	0	0.1		0.1	0.1	0.1	+			
31	0.1		0	0.1		0.1		0.1		+	+	
	3.1		0		30.2		52.3		46.4		+	
		0.6		65.2		3.1		3.1		+		+
MEAN	0.10	0.02	0	2.10	1.08	0.10	1.74	0.10	1.55	+	+	+
ACRE-FEET	6.1	1.2	0	129.	60.	6.2	104.	6.2	92.	+	+	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.56
ACRE-FEET 405.

STATION F260C-R
SANTA ANITA WASH below Foothill Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 34°08'55", LONG. 118°01'34", ON THE RIGHT (WEST) BANK OF THE CHANNEL ABOUT 1300 FEET DOWNSTREAM FROM FOOTHILL BOULEVARD AND ABOUT ONE MILE NORTH OF ARCADIA. ELEVATION AT ZERO GAGE HEIGHT, 507.10 FEET.

DRAINAGE AREA: 17.2 SQUARE MILES

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE 30 FEET WIDE AND 13 FEET DEEP. BOTTOM IS WARPED 0.3 FOOT TOWARD STATION.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM STEEL FOOTBRIDGE 100 FEET ABOVE STATION.

RECORDER: A STEVENS TYPE A-35 RECORDER WAS IN SERVICE FROM DECEMBER 11, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY SANTA ANITA DAM, SIERRA MADRE DAM, AND SANTA ANITA DEBRIS BASIN.

DIVERSIONS: THE CITY OF SIERRA MADRE DIVERTS WATER FROM SIERRA MADRE WASH AND SANTA ANITA CREEK FOR SPREADING IN SIERRA MADRE SPREADING GROUNDS. THE FLOOD CONTROL DISTRICT DIVERTS WATER FROM SANTA ANITA CREEK FOR SPREADING AT MOUTH OF SANTA ANITA CANYON.

RECORDS AVAILABLE: DECEMBER 11, 1959 TO SEPTEMBER 30, 1961. FOR RECORDS PRIOR TO DECEMBER 1959 SEE STATIONS F21-R, F119-R AND F260B-R.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 194 SECOND-FEET JANUARY 11.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 257 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW AT VARIOUS TIMES
1936-61
MAXIMUM NOT DETERMINED.
MAXIMUM OUTFLOW FROM SANTA ANITA DAM, 5070 SECOND-FEET MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: GOOD.

OPERATION: LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. CONSTRUCTED BY THE U.S. CORPS OF ENGINEERS.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F260C-R

Daily discharge, in second-feet of SANTA ANITA WASH below Foothill Boulevard, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	+	2.9	1.2	0.1	+	+	+	+	+
2	0	0	0		0.8	2.9	0.1	+	+			
3	0	0	0		0.1	1.8	0.1	0.1	0.1			
4	0	0	0		+	0.1	0.1	+	0.1			
5	0	0	0			0.1	0.1		0.1	+		
6	0	0	0			0.1	0.1		0.1	0.1		
7	0	0	0		+	0.1	0.1		0.1	0.1		
8	0	0	+		3.6	0.1	0.1		0.1	+		
9	0	0	0	+	0.8	0.1	0.1		+	0.1		
10	0	0	0	1.2	1.3	0.1	0.1		+	0.1		
11	0	0	0	6.6	0.1	0.1	0.1		+	0.1		
12	0	0	0	3.1	0.1	0.1	0.1		0.1	0.1		
13	0	0	0	+	+	0.1	0.1		0.1	0.1	+	
14	0	0	0	3.6		0.1	0.1		0.1	0.3	0.1	
15	0	0	0	4.0		0.1	0.1		0.1	0.3	0.1	
16	0	0	+	+		0.1	0.1		0.1	0.3	0.1	
17	0	0	0			0.1	0.1		0.1	0.3	0.1	
18	0	0	0			0.1	0.1		0.1	0.3	0.1	
19	0	0	0			0.1	0.1		0.1	0.3	0.1	
20	0	0	+			0.1	0.1		+	0.1	+	
21	0	0	+			0.1	0.1			0.1		
22	0	0	0			0.1	0.1			0.1		
23	0	0	0		+	0.1	+			0.1		
24	0	0	4.3	+	0.4	0.1	+			+		
25	0	0	0.8	2.4	+	0.1	+					
26	0	0	+	0.5	+	0.1	0.9					
27	0	0		+	0.1	1.3	7.8					
28	0	0			2.4	1.5	0.1					+
29	0	0			5.2	0.3	+					0.1
30	0	0				0.3	+		+	+		0.1
31	0		+	+		0.1		+		0.1	+	
	0		5.1	17.8		11.0		1.4		3.0	0.6	
		0		30.4		11.7		0.1				0.2
MEAN	0	0	0.16	0.98	0.57	0.38	0.37	+	0.05	0.10	0.02	+
ACRE-FEET	0	0	10.	60.	35.	23.	22.	0.2	2.8	6.0	1.2	0.4

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.22
ACRE-FEET 161.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

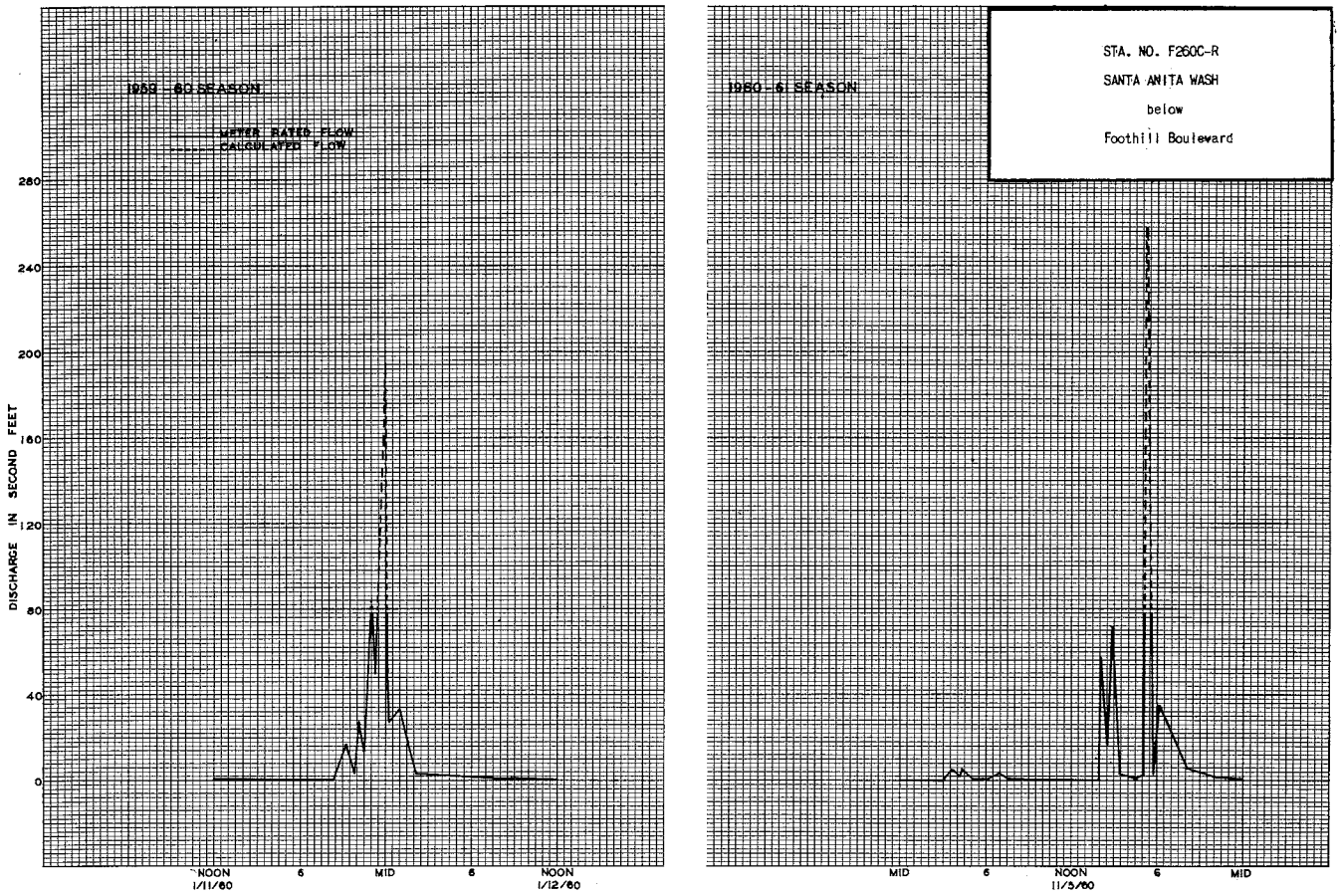
Sta. No. F260C-R

Daily discharge, in second-feet of SANTA ANITA WASH below Foothill Boulevard, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	a +	0.4	+	+	+	0.1	0	+	+	+	+
2		a +	1.0	0		+	+	+				
3		8.2	+	0		+		0				
4	+	+		+		0.1		+				
5	0.1	9.5				+						
6	0.1	1.9			+		0.3					
7	0.1	+			0		0	+				
8	0.1			+	+		+	0				
9	0.5			0			+	0				
10	3.3			+			0	0				
11	+	+					+	0				
12		6.8						0				
13		0.3						0				
14		+		+		+		0				
15				0		3.3		0				
16				0		0		0				
17		+		0		+		+				
18		0.1		0		+		0				
19		+		+		+		+				
20				0		0		0				
21		+	+	0	+	+	+	0				
22	+	0.1	0	0	0.1	+	0.1	+				
23	0.3	+	0	+	+	0	0	0				
24	+	+	+	+	+	0.1	0	0				
25		+	0	0.1	+	+	+	+				
26		2.5	0	9.1	0.1	0	+	0.1				
27		0.1	0	0.1	+	0	+	0.1				
28	a	+	0	+	0.1	0.1	0	+				
29		+	0		+	0	0	+				
30		+	0			0	0	0.1	+			+
31	a +		0	+		+		+		+	+	
	4.5		1.4	9.3	0.3	3.6	0.5	0.3	+	+	+	+
		29.5										
MEAN	0.14	0.98	0.04	0.30	0.01	0.12	0.02	0.01	+	+	+	+
ACRE-FEET	8.9	59.	2.8	18.	0.6	7.1	1.0	0.6	+	+	+	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.14
ACRE-FEET 98.



STATION F193B-R
SANTA ANITA WASH at Longden Avenue

LOCATION: WATER STAGE RECORDER, LAT. 34°06'52", LONG. 118°00'54", ON THE RIGHT (WEST) BANK 30 FEET UPSTREAM OF THE LONGDEN AVENUE BRIDGE, 1½ MILES SOUTH OF ARCADIA. ELEVATION OF ZERO GAGE HEIGHT = 346.5.

DRAINAGE AREA: 18.8 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE 35 FEET WIDE AND 14 FEET DEEP.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF LONGDEN AVENUE BRIDGE.

RECORDER: AN AU CONTINUOUS RECORDER WAS IN SERVICE FROM JANUARY 5, 1960 TO NOVEMBER 18, 1960. A STEVENS TYPE A35 WAS IN SERVICE FROM NOVEMBER 18, 1960 TO SEPTEMBER 30, 1961.

REGULATION AND/OR DIVERSIONS: SUBJECT TO THE SAME REGULATION AND DIVERSIONS AS STATION F260C-R, SANTA ANITA WASH BELOW FOOTHILL BOULEVARD.

RECORDS AVAILABLE: JANUARY 5, 1960 TO SEPTEMBER 30, 1961 (AT STATION F193-R FROM APRIL 25, 1932 TO MARCH 1, 1938).

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 534 SECOND-FEET APRIL 27.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 314 SECOND-FEET NOVEMBER 12.
MINIMUM NO FLOW AT VARIOUS TIMES.
1959-61
MAXIMUM 534 SECOND FEET APRIL 27, 1960.
MINIMUM NO FLOW AT VARIOUS TIMES EACH YEAR

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED, AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

74D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F193B-R

Daily discharge, in second-feet of Santa Anita Wash at Longden Avenue, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1					24	62	+	+	+	+	e 01	+
2					14	44		+			01	
3					01	24		02			01	
4					+	01		01			01	
5						+		+		+	01	
6				+	+					03	01	
7										03	01	
8					165					e 03	01	
9				+	08					03	01	
10			RECORDER RECORD BEGAN JANUARY 5, 1960	a 13	24	a				03	01	
11				142	+					03	01	
12				112						03	01	
13				+						03	01	
14				73						03	01	
15				92						02	01	
16				01						02	01	
17				+						02	01	
18										02	01	
19										02	e 01	
20										01	+	
21							+			01		
22							01			01		
23					+		+			01		
24			e 55	+	15	a	+			01		
25			e 11	60	+		+			01		
26				19	+		31			01		
27				+	+	29	55			01		
28					56	b 15	02			01		
29					29	b 03	+			01		
30						b 03	+		+	01		
31				+		+		+		e 01	+	+
			E 66		813		584		+		19	
				629		181		03		49		
MEAN	E0	E0	E 0.21	2.03	2.80	0.58	1.95	0.01	+	0.16	0.06	+
ACRE-FEET	E0	E0	E13.	125.	161.	36.	116.	0.6	+	9.7	3.8	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.64
ACRE-FEET 465.

74D74M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

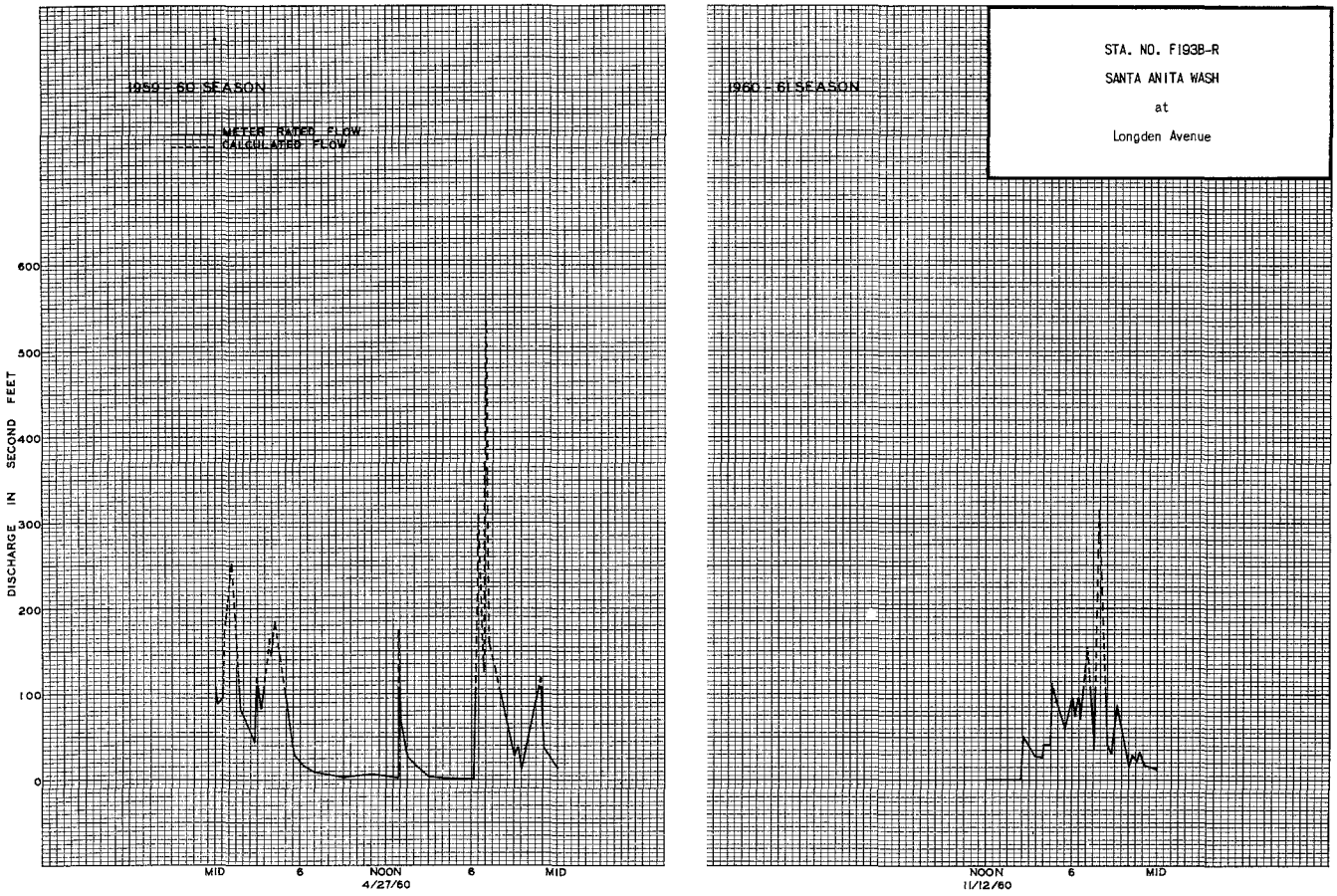
Sta. No. F193-R

Daily discharge, in second-feet of SANTA ANITA WASH at Longden Avenue, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	+	+	+	01	+	+	+	+	+
2		01	20				+	+				
3		77	+					01				
4		+		+				01				
5		104		01			+	+		+		
6		14		+			02					
7		02					+			01		
8	+	+								+		
9	02											
10	03											
11	+	+										+
12		26										02
13		08										+
14		02				+						
15	+	01				101						
16	01	01				+			+			
17	01	+							01			
18	01								+			
19	01											
20	+											
21	+		+				+	+			+	
22	+		01				02	01	+			
23	03		+			+	+	+	01		01	
24	02			+		01			+		+	
25	01	+		08		01						
26	02	117		33		+		+				
27	01	+		02		+						
28	01			+	+	02		+				
29	01					+		0				
30	+	+				+	+	0	+			+
31	01		+	+		+		+		+	+	
	21		21		+		05		02		01	
		587		341		105		03		01		02
MEAN	0.07	1.96	0.07	1.10	+	0.34	0.02	0.01	0.01	+	+	0.01
ACRE-FEET	4.2	116.	4.2	68.	+	21.	1.0	0.6	0.4	0.2	0.2	0.4

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.3
ACRE-FEET 216.



STATION F93-R

SANTA CLARA RIVER above Lang Railroad Station

LOCATION: WATER-STAGE RECORDER, LAT. 34°25'59", LONG. 118°21'41", ON THE RIGHT (NORTH) BANK ABOUT 0.7 MILE ABOVE LANG RAIL ROAD STATION. ELEVATION OF ZERO GAGE HEIGHT ABOUT 1735 FEET.

DRAINAGE AREA: 157.3 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND, GRAVEL AND ROCK. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING: HIGH FLOWS MEASURED FROM CABLE CAR FIVE FEET BELOW THE STATION.

RECORDER: A STEVENS A-35 CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSIONS: THERE ARE DIVERSIONS FOR IRRIGATION.

RECORDS AVAILABLE: RECORDER RECORDS AVAILABLE FROM OCTOBER 18, 1949 TO SEPTEMBER 30, 1961, STREAM FLOW MEASUREMENTS FROM NOVEMBER 1929.

EXTREMES OF DISCHARGE:

1959-60
- MAXIMUM 1.3 SECOND-FEET SEVERAL DAYS IN APRIL, MAY, AND JUNE.
- MINIMUM 0.9 SECOND-FOOT AT TIMES IN OCTOBER.

1960-61
- MAXIMUM 500 SECOND-FEET (ESTIMATE) NOVEMBER 6.
- MINIMUM 0.3 SECOND-FOOT SEVERAL DAYS IN SEPTEMBER.

1950-61
- MAXIMUM 4200 SECOND FEET JANUARY 16, 1952.
- MINIMUM 0.2 SECOND-FOOT VARIOUS TIMES IN 1950-51.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

7601FAM Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F93-R

Daily discharge, in second-feet of SANTA CLARA RIVER above Lang Rail Road Station for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.3	1.0	c 1.1	a 1.1	1.1	a 1.2	1.1	1.1	1.2	c 1.1	1.0	1.1
2	1.3	1.0	1.1	1.1	1.1	1.2	1.1	1.1	1.2	1.1	1.0	1.1
3	1.3	1.1	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.0	1.1
4	1.2	1.2	1.1	1.2	1.1	1.2	1.1	1.1	1.1	1.0	1.0	1.1
5	1.2	1.2	1.1	1.2	1.1	1.2	1.1	1.1	1.2	1.0	1.0	1.0
6	1.2	1.2	1.1	1.2	1.1	1.2	1.1	1.1	c 1.2	c 1.0	1.0	1.0
7	1.2	1.2	c 1.1	a 1.2	1.1	a 1.1	1.1	1.1	1.2	1.0	1.0	1.0
8	1.1	1.2	1.1	1.2	1.1	1.1	1.1	1.1	1.3	1.0	1.1	1.0
9	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.3	1.0	1.1	1.0
10	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.3	1.0	1.1	1.0
11	1.1	1.1	1.1	1.2	1.1	1.1	1.1	1.1	1.2	e 1.0	1.1	1.0
12	1.2	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.2	1.0	1.1	1.0
13	1.2	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.0	1.1	1.0
14	1.2	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.0	1.1	1.0
15	1.2	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.0	1.1	1.0
16	1.2	1.2	1.1	1.2	1.2	1.1	1.1	1.2	c 1.1	1.0	1.1	1.0
17	1.2	1.2	1.1	1.1	1.2	1.1	1.1	1.2	1.1	1.0	1.1	1.0
18	1.2	1.2	1.1	1.1	1.2	1.1	1.2	1.2	1.1	1.0	1.1	1.0
19	1.2	1.2	1.1	1.0	c 1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.0
20	1.2	1.2	1.1	1.0	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.0
21	1.1	1.2	1.2	1.0	1.2	1.1	1.2	1.2	1.1	e 1.1	1.1	1.0
22	1.1	1.1	1.2	1.0	1.2	1.2	1.2	1.2	1.1	c 1.1	1.1	1.0
23	1.0	1.1	1.2	1.0	1.2	1.2	1.2	1.2	1.1	c 1.1	1.1	1.0
24	1.0	1.1	1.2	1.0	c 1.2	1.2	1.2	1.2	1.1	1.1	1.0	1.0
25	1.0	1.1	1.1	1.0	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0
26	0.9	1.1	1.1	1.0	1.2	1.2	1.2	1.1	1.1	1.1	1.0	1.0
27	0.9	c 1.1	1.0	1.0	1.2	1.2	1.3	1.1	1.1	1.1	1.0	1.0
28	0.9	1.1	1.1	1.0	a 1.2	1.1	1.3	1.1	1.1	1.1	1.0	1.0
29	0.9	1.1	1.1	1.0	a 1.2	1.1	1.3	1.2	1.1	1.1	1.1	1.0
30	0.9	c 1.1	1.1	1.1		1.1	1.2	1.3	c 1.1	1.1	1.1	1.0
31	1.0		a 1.1	1.1		1.1		1.3		1.1	1.1	
	34.6		34.4	33.7		34.6		35.5	34.3		32.9	
		34.3			34.3		35.3			32.6		30.4
MEAN	1.12	1.14	1.11	1.11	1.16	1.14	1.15	1.15	1.14	1.05	1.06	1.01
ACRE-FEET	69.	68.	68.	68.	67.	70.	69.	70.	68.	65.	65.	60.

Remarks:

YEAR OR PERIOD MEAN 1.11
ACRE-FEET 807.

7601FAM Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F93-R

Daily discharge, in second-feet of SANTA CLARA RIVER above Lang Railroad Station for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.0	0.9	b 2.6	b 2.4	b 2.5	b 0.9	b 0.7	b 0.6	b 0.6	b 0.5	b 0.4	b 0.4
2	1.0	1.0	3.5	2.2	2.4	0.9	0.7	0.6	0.6	0.5	0.4	0.4
3	1.0	1.1	2.6	2.1	2.3	0.9	0.7	0.6	0.6	0.5	0.4	0.4
4	1.0	1.2	2.5	2.0	2.2	0.8	0.7	0.6	0.6	0.5	0.4	0.3
5	0.9	b 3.7	2.5	1.9	2.1	0.8	0.7	0.6	0.5	0.5	0.9	0.3
6	0.9	4.6	2.5	1.9	2.0	0.7	0.7	0.6	0.5	0.5	3.0	0.3
7	0.9	3.2	2.5	1.9	1.9	0.6	0.7	0.6	0.5	0.5	0.6	0.3
8	0.9	2.9	2.5	1.9	1.9	0.5	0.7	0.5	0.5	0.5	0.6	0.3
9	0.9	2.8	2.5	1.9	1.9	0.5	0.7	0.5	0.5	0.5	0.5	0.3
10	0.9	2.8	2.5	1.8	1.9	0.5	0.7	0.5	0.5	0.4	0.5	0.3
11	0.9	2.8	2.5	1.8	1.9	0.5	0.7	0.5	0.5	0.4	0.5	0.3
12	0.9	4.9	2.5	1.8	1.9	0.5	0.7	0.5	0.5	0.4	0.5	0.4
13	0.9	3.2	2.5	1.8	1.8	0.6	0.7	0.5	0.5	0.4	0.5	0.4
14	0.9	2.4	2.8	1.8	1.8	0.6	0.7	0.5	0.5	0.4	0.4	0.4
15	0.9	2.0	3.1	1.8	1.8	0.6	0.7	0.6	0.5	0.4	0.4	0.4
16	1.0	1.9	2.7	1.8	1.8	0.6	0.7	0.6	0.5	0.4	0.4	0.4
17	1.0	1.9	2.7	1.7	1.8	0.6	0.7	0.6	0.5	0.4	0.4	0.4
18	1.0	1.9	2.7	1.7	1.8	0.6	0.6	0.6	0.5	0.4	0.4	0.4
19	1.0	1.9	2.7	1.7	1.8	0.6	0.6	0.6	0.6	0.4	0.4	0.4
20	1.0	2.0	2.7	1.7	1.5	0.5	0.6	0.6	0.6	0.4	0.4	0.4
21	1.0	2.1	2.7	1.7	1.0	0.5	0.6	0.6	0.6	0.4	0.4	0.4
22	1.0	2.2	2.7	1.7	0.9	0.5	0.6	0.6	0.6	0.4	0.4	0.4
23	1.0	2.3	2.7	1.7	0.8	0.5	0.6	0.6	0.6	0.4	0.4	0.4
24	0.9	2.4	2.7	1.7	0.8	0.5	0.6	0.6	0.6	0.5	0.4	0.4
25	0.9	2.5	2.7	1.7	0.8	0.5	0.5	0.6	0.5	0.5	0.4	0.4
26	0.9	1.2	2.7	2.9	0.9	0.6	0.5	0.6	0.5	0.5	0.4	0.4
27	0.9	3.9	2.7	2.9	0.9	0.6	0.5	0.6	0.5	0.5	0.4	0.4
28	0.9	2.8	2.7	2.8	b 0.9	0.6	0.5	0.6	0.5	0.5	0.4	0.4
29	0.9	2.7	2.7	2.7		0.7	0.5	0.6	0.5	0.5	0.4	0.4
30	0.9	b 2.6	2.7	2.6		0.7	b 0.5	0.6	b 0.5	0.5	0.4	b 0.4
31	0.9		b 2.6	b 2.5		b 0.7		b 0.6		b 0.4	b 0.4	
	29.1		82.7		46.0		19.1		16.0		16.4	
		159.3		62.5		19.2		17.9		14.0		11.2
MEAN	.94	5.31	2.67	2.02	1.64	0.62	0.64	0.58	0.53	.45	.53	.37
ACRE-FEET	58.	316.	164.	124.	91.	38.	38.	36.	32.	28.	33.	22.

Remarks:

YEAR OR PERIOD MEAN 1.35
ACRE-FEET 980.

STATION F92-R
SANTA CLARA RIVER at Old Highway Bridge

LOCATION: WATER-STAGE RECORDER, LAT. 34°25'38", LONG. 118°35'16", ON THE DOWNSTREAM END OF THE RIGHT (WEST) PIER OF THE OLD HIGHWAY 99 BRIDGE. 750 FEET BELOW THE NEW HIGHWAY 99 BRIDGE AND ABOUT THREE MILES WEST OF SAUGUS. ELEVATION OF ZERO GAGE HEIGHT 1028.41 FEET.

DRAINAGE AREA: 410.4 SQUARE MILES.

CHANNEL AND CONTROL: SAND AND GRAVEL, HEAVY WEED AND BRUSH GROWTH. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM CABLE CAR AT THE STATION.

RECORDER: A STEVENS TYPE A-35B CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: PARTIALLY REGULATED BY BOUQUET CANYON AND DRY CANYON RESERVOIRS. FLOWS OCCASIONALLY ORIGINATE FROM LOS ANGELES CITY AQUEDUCT BLOWOFF AT SANTA CLARA RIVER CROSSING.

DIVERSIONS: SOME FLOW DIVERTED FOR IRRIGATION NEAR LANG.

RECORDS AVAILABLE: AT STATION F92-R, RECORDER RECORDS FROM JANUARY 18, 1930 TO MARCH 28, 1938 AND FROM SEPTEMBER 24, 1956 TO SEPTEMBER 30, 1961. AT STATION F92B-R, RECORDER RECORDS FROM OCTOBER 1, 1938 TO SEPTEMBER 24, 1956. SOME WEEKLY STREAM FLOW MEASUREMENTS WERE TAKEN PRIOR TO JANUARY 18, 1930 AND FROM MARCH 28, 1938 TO OCTOBER 1, 1938.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 151 SECOND-FEET APRIL 27.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 830 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW AT TIMES.
1930-61 (STATIONS F92-R AND F92B-R)
MAXIMUM 24,000 SECOND-FEET, ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: POOR, DUE TO GROWTH IN CHANNEL.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

768748M Cib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F92-R

Daily discharge, in second-feet of SANTA CLARA RIVER at Old Highway Bridge, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	4.4	0	0.2	0	0.5	1.4	1.2	0.7
2	0	0	0	0	3.1	0	0.4	+	0.3	1.0	0.5	0.6
3	0	0	0	0	0	0	0.3	0.4	0.3	1.9	2.0	0.1
4	+	0	0	0	0	0	0.3	0.2	0.6	1.9	2.2	0.1
5	0	0	0	0	0	0	0.1	0	e 0.3	1.9	1.6	0.4
6	0	0	0	0	0	0	0	0	e 0.2	2.2	+	0.1
7	+	0	0	0	0	0	0	+	e 0.1	2.2	0	0.1
8	+	0	0	0	0	0	0	0.1	0.4	2.2	0	0.3
9	0	0	0	0	0.1	0	0	0.1	0.4	2.2	+	0.4
10	+	+	0	0.4	0	0	0.1	0.3	0.3	2.2	0.2	0.4
11	0	+	0	0.1	0	0	0.1	0.1	0.5	1.9	0.2	0.8
12	+	0	+	4.2	0	0	0.1	0.2	0.4	1.8	0.2	0.7
13	0.2	0	0	0	0	0	0.1	0.7	0.1	0.9	0.7	0.9
14	0.2	0	0	0	0	0	0.3	0.1	1.0	1.4	0.6	0.4
15	1.4	0	0	+	0	+	0.8	0.2	0.4	1.6	0.4	0.4
16	0.1	0	0	0	0	+	0.6	0	0.6	1.5	0.8	1.0
17	0.5	0	0	0	0	0	+	0.1	0.4	1.2	0.8	1.3
18	0.2	0	0	0	0	0	0	0.3	0.1	0.6	0.6	1.6
19	+	0	0	0	0	0	0	0.2	1.2	+	0.3	0.7
20	0	0	0	0	0	+	0.1	0.3	1.3	0.6	1.4	0.1
21	0	0	0	0	0	+	0.2	0.2	1.3	0.4	1.4	0.3
22	+	0	0	0	0	0.2	0.2	0.2	1.6	0.8	1.5	0.5
23	+	0	0	0	0	0.1	0.6	0.2	1.6	0.3	0.8	0.8
24	0.1	0	+	0	0	0.3	0.3	0.4	1.2	1.0	+	+
25	+	0	0	+	0	0.6	0	0.5	1.1	1.5	+	0
26	0	0	0	0	0	0.4	+	0.1	1.5	1.6	+	0
27	0	0	0	0	0	+	1.2	0.1	1.7	2.0	0.4	0
28	0	0	0	0	0	+	+	0.3	1.7	2.2	0.5	0.4
29	+	0	0	0	+	+	0	0.8	1.7	1.7	0.6	1.0
30	+	0	0	0		0.2	0	0.8	1.1	1.4	0.2	0.8
31	0		0	0		0.2		1.3		1.3	0.6	
	2.7		+		7.6		16.8		23.9		19.7	
		+		4.7		2.0		8.2		44.8		14.9
MEAN	.087	+	+	0.15	0.26	.065	0.56	0.26	0.80	1.44	0.64	0.50
ACRE-FEET	5.4	+	+	9.3	15.	4.0	33.	16.	47.	89.	39.	30.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.40
ACRE-FEET 288.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

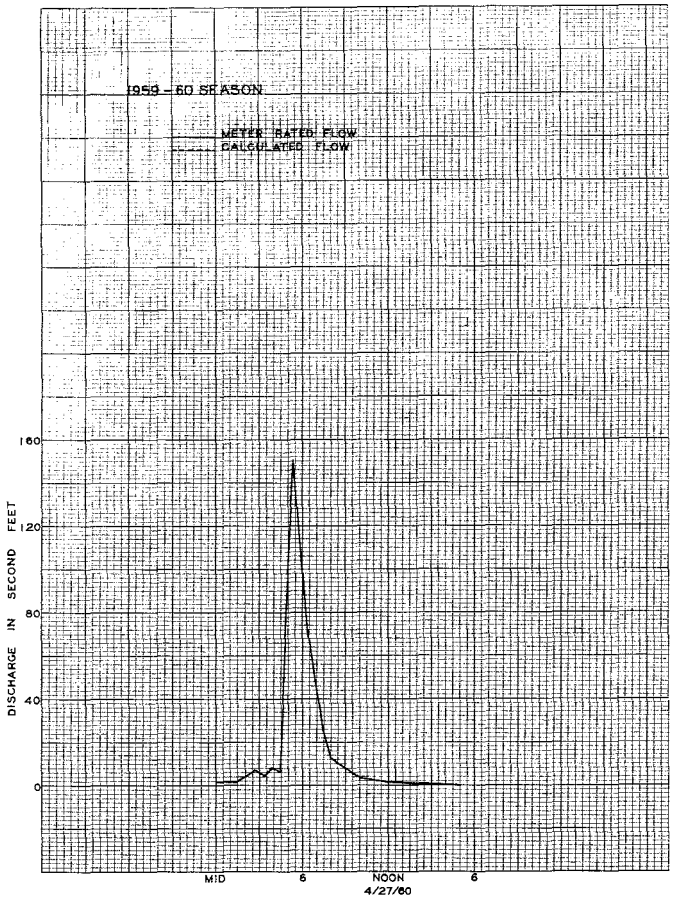
Sta. No. F92-R

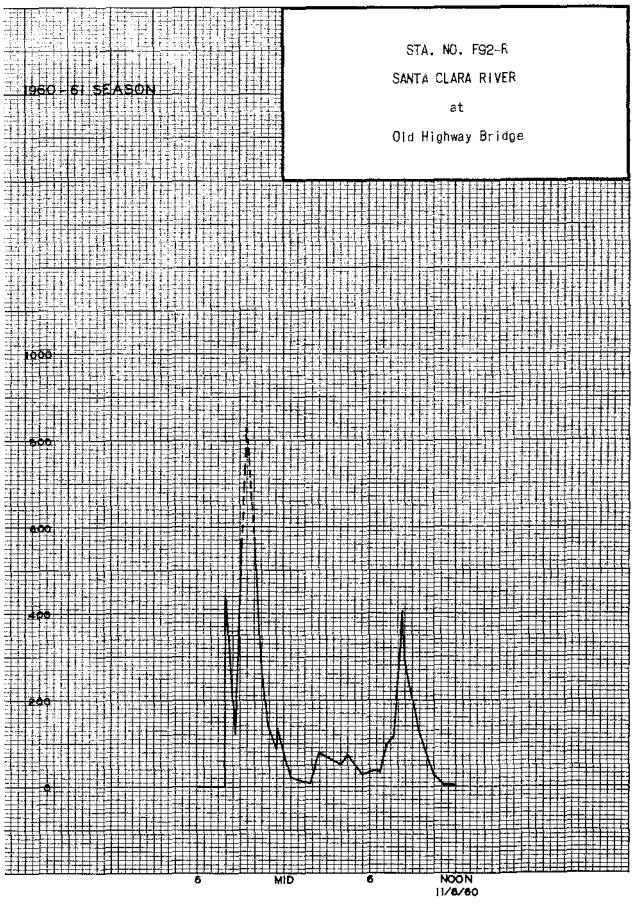
Daily discharge, in second-feet of SANTA CLARA RIVER at Old Highway Bridge, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.1	0	0	0	0	0.1	0	0.5	0.4	3.0	1.3	0.1
2	0.6	0	0.4	0.3	0	0.5	0	0.1	0.8	2.9	0.8	0.4
3	0	+	+	0.4	0	0.8	0.1	0.2	1.1	1.4	0.6	0.6
4	0.2	0	0	0	0	0.7	0.2	0.1	1.4	1.2	1.0	0.5
5	0	5.8	+	0	0	0.7	+	0.2	1.4	0.4	0.7	0.5
6	0.4	4.1	0	0	0	+	0.1	0.1	0.3	1.0	0.4	0.6
7	0.1	0	0	0	0	0.1	+	+	0.6	1.5	0.1	1.1
8	0.4	0	+	0	0	0	0	0.1	0.5	2.2	0.8	1.1
9	0.4	0	+	0	0	0	0		0.4	0.9	0.8	1.1
10	+	0	0.1	+	0	0	0	+	0.6	1.1	1.1	0.3
11	0	0	+	0	0	0	0	0.1	1.0	1.2	0.6	0.2
12	0	1.5	0	0	0	0	0	0.2	1.1	0.7	0.4	0.6
13	0.2	3.7	0	0	0	0.5	0	0.5	1.2	0.4	0	1.0
14	0.8	0	0.3	0	e 0.1	0.6	0	0.4	1.5	+	0.3	1.0
15	0.7	0	0	0	e 0.1	0.2	0.1	0.5	1.8	0.2	1.0	0.4
16	0	0	0	0	0	0	0.3	0.8	2.4	0.4	0.7	0.1
17	+	0	0	0	0	0	+	1.0	1.0	0.7	e 0.7	0.2
18	0.4	0	0	0	+	0	0.4	0.9	0.1	1.1	0.6	+
19	0.5	0	0	0	e +	0.1	0.2	1.1	0.6	0.7	0.5	0.3
20	0.2	0	0	0	e 0.1	0	0	1.0	0.7	0.6	0.4	0.6
21	0	0	0	0	e 0.1	0	0	1.0	0.4	0.3	0.3	0.4
22	0.1	0	0	0	0	0	0.2	1.1	0.3	0.4	0.3	0.7
23	0	0	0	0	0	0	0.2	1.2	0.2	0.3	0.3	+
24	+	0	0	0	0	0.1	+	0.6	0.3	0.3	0.3	0
25	0	0	0	0	0	0.2	+	0.9	0.3	1.2	e 0.3	0
26	0	1.4	0	1.4	0	0.1	0.5	0.9	0.5	1.8	0.1	0.5
27	0	7.4	0.1	0	0	0.1	0.6	0.9	0.7	1.0	0.1	0.5
28	0	0	0.3	0	0	0.1	0.6	0.9	0.6	0.4	+	0.1
29	0	0	0	0		0.1	0.4	0.6	1.1	0.5	0.1	0.1
30	0	0	0	0		0	0.3	0.2	1.2	0.4	0.1	+
31	0		0.1	0		0		0.2		1.3	0.3	
	6.1		1.3		0.4		4.2		24.5		15.0	
		139.1		14.7		4.9		16.3		29.5		13.0
MEAN	0.20	4.64	.042	.47	.014	.16	0.14	0.53	0.82	0.95	0.48	0.43
ACRE-FEET	12.	276.	2.6	29.	0.8	9.7	8.3	32.	48.	59.	30.	26.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN .74
ACRE-FEET 533.





STA. NO. F92-R
SANTA CLARA RIVER
at
Old Highway Bridge

STATION V309-R
SANTA CLARA RIVER at Blue Cut

LOCATION: WATER-STAGE RECORDER, LAT. 34°23'59", LONG. 118°42'14", ON RIGHT BANK, 0.8 MILE WEST OF LOS ANGELES COUNTY LINE. ALTITUDE OF GAGE, 794.93 FEET ABOVE MEAN SEA LEVEL.

DRAINAGE AREA: 640. SQUARE MILES. (REVISED)

RECORDS AVAILABLE: OCTOBER 1952 TO SEPTEMBER 1961.

AVERAGE DISCHARGE: NINE YEARS. 11.3 SECOND-FEET.

CHANNEL CONTROL: CHANNEL - SHIFTING SAND AND GRAVEL.

ACCURACY: FAIR.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 109. SECOND-FEET APRIL 27 (GAGE HEIGHT 3.88 FEET).
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 190. SECOND-FEET NOVEMBER 6.
MINIMUM NO FLOW AT VARIOUS TIMES.
1952-61
MAXIMUM 7070 SECOND-FEET APRIL 3, 1958.
MINIMUM NO FLOW AT VARIOUS TIMES.

REMARKS: FLOW AT STATION AFFECTED BY PUMPING FROM WELLS ALONG STREAM FOR IRRIGATION ABOVE STATION.

COOPERATION: RECORDS FURNISHED BY VENTURA COUNTY WATER RESOURCES DIVISION. THIRTY-FIVE DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

760T4M Gib 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. V309-R

Daily discharge, in second-feet of SANTA CLARA RIVER at Blue Cut, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.4	0.6	0.9	0.9	6.4	1.5	2.3	1.5	0.9	0	0	0
2	0.3	0.6	0.9	0.9	7.9	1.5	1.8	1.8	0.6	0.4	0	0
3	0.3	0.9	0.9	0.9	2.3	1.5	1.8	1.8	0.6	0.1	0	0
4	0.3	0.9	0.9	0.9	1.8	1.5	1.8	1.8	0.6	0	0	0
5	0.3	0.9	0.6	0.9	1.5	1.5	1.8	1.5	0.6	0.1	0	0
6	0.3	0.6	0.6	0.9	1.1	1.5	1.8	1.1	0.9	0.4	0	0
7	0.3	0.6	0.9	0.9	1.1	1.5	1.8	1.1	0.9	0.9	0	0
8	0.4	0.9	0.9	0.9	2.7	1.5	1.8	0.9	0.6	0.3	0	0
9	0.4	0.9	0.9	0.9	3.5	1.5	1.8	1.1	0.6	0	0	0
10	0.4	0.9	0.9	1.8	1.5	1.5	1.8	1.5	0.4	0	0	0
11	0.4	0.6	0.9	2.7	1.1	1.5	1.8	0.9	0.4	0	0	0
12	0.4	0.6	0.9	3.3	1.1	1.5	1.8	0.3	0.4	0	0	0
13	0.4	0.6	0.9	2.3	1.1	1.5	1.8	0.3	0.4	0	0	0
14	0.4	0.9	0.9	2.3	1.1	1.5	1.8	0.4	0.3	0	0	0
15	0.4	0.9	0.9	1.8	1.1	1.5	1.5	0.6	0.3	0	0	0
16	0.4	0.9	0.9	1.8	1.1	1.5	1.5	0.6	0.3	0	0	0
17	0.4	0.9	0.9	1.8	1.1	1.5	1.5	0.6	0.3	0	0	0
18	0.4	0.6	0.9	1.8	1.5	1.8	1.5	0.4	0.3	0	0	0
19	0.5	0.6	0.9	1.5	1.5	1.8	1.5	0.3	0.3	0	0	0
20	0.6	0.6	0.9	1.1	1.5	1.8	1.5	0.3	0.3	0	0	0
21	0.6	0.6	0.9	1.1	1.5	1.8	1.5	0.4	0.2	0	0	0
22	0.4	0.6	0.9	1.8	1.5	1.8	1.5	0.6	0.1	0	0	0
23	0.4	0.6	0.9	1.5	1.3	1.8	1.5	1.1	0.1	0	0	0
24	0.4	0.6	1.8	1.5	1.1	1.8	1.1	1.1	0.2	0	0	0
25	0.6	0.6	0.9	3.3	1.1	1.8	1.1	0.9	0.2	0	0	0
26	0.9	0.6	0.6	1.8	1.1	2.3	2.2	0.6	0.2	0	0	0
27	0.9	0.6	0.6	1.1	1.1	2.7	2.0	0.4	0.1	0	0	0
28	0.6	0.9	0.6	0.9	1.1	3.3	1.1	0.3	0.1	0	0	0
29	0.6	0.9	0.9	0.9	1.1	2.7	2.3	0.4	0.2	0	0	0
30	0.6	0.9	0.9	0.9		2.3	1.8	0.9	0.1	0	0	0
31	0.6		0.9	0.9		2.3		0.9		0	0	
	14.3	21.9	27.3	46.0	52.9	55.5	78.7	26.4	11.5	2.2	0	0
MEAN	0.46	0.73	0.88	1.48	1.82	1.79	2.62	0.85	0.38	0.07	0	0
ACRE-FEET	28.	43.	54.	91.	105.	110.	156.	52.	23.	4.4	0	0

Remarks:

YEAR OR PERIOD MEAN 0.92
ACRE-FEET 666.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. V309-R

Daily discharge, in second-feet of SANTA CLARA RIVER at Blue Cut for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0.9	0.9	2.6	1.3	1.3	0.6	0.5	0.1	0	0
2	0	0	0.9	0.9	1.5	1.3	1.0	0.6	0.5	0	0	0
3	0	0.7	1.0	0.9	1.3	1.2	0.9	0.5	0.4	0	0	0
4	0	0.9	1.0	0.9	1.2	1.2	0.8	0.5	0.4	0	0	0
5	0	1.9	0.9	0.9	1.0	1.2	0.9	0.5	0.4	0	0	0
6	0	4.4	0.7	0.9	1.0	1.3	1.0	0.5	0.5	0	0	0
7	0	6.6	0.8	0.9	1.0	1.3	1.2	0.6	0.4	0	0	0
8	0	1.4	0.8	0.9	1.2	1.3	1.0	0.5	0.4	0	0	0
9	0	0.5	0.8	0.9	1.2	1.4	0.9	0.4	0.4	0	0	0
10	0	0.3	0.8	0.9	1.3	1.4	1.0	0.4	0.3	0	0	0
11	0	0.2	0.8	0.9	1.3	1.4	1.0	0.4	0.2	0	0	0
12	0	0.5	0.8	0.9	1.3	1.4	1.0	0.4	0.2	0	0	0
13	0	1.2	0.8	0.9	1.3	1.4	1.0	0.4	0.1	0	0	0
14	0	1.5	0.8	0.9	1.3	1.4	1.0	0.4	0.1	0	0	0
15	0	0.9	0.9	0.8	1.2	1.7	0.9	0.4	0.1	0	0	0
16	0	0.6	0.9	0.8	1.2	1.5	0.7	0.4	0.1	0	0	0
17	0	0.6	0.8	0.9	1.2	1.5	0.7	0.4	0.1	0	0	0
18	0	0.6	0.8	0.9	1.3	1.5	0.7	0.5	0.1	0	0	0
19	0	0.6	0.8	0.9	1.3	1.4	0.7	0.4	0.1	0	0	0
20	0	0.6	0.8	0.9	1.2	1.4	0.7	0.4	0.1	0	0	0
21	0	0.7	0.8	1.0	1.2	1.4	0.7	0.4	0.1	0	0	0
22	0	0.6	0.8	1.0	1.3	1.3	0.9	0.4	0.1	0	0	0
23	0	0.5	0.8	1.0	1.2	1.4	0.9	0.4	0.1	0	0	0
24	0	0.5	0.8	1.2	1.2	1.5	0.8	0.4	0.1	0	0	0
25	0	0.5	0.8	1.3	1.3	1.5	0.9	0.4	0.1	0	0	0
26	0	2.0	0.8	7.5	1.3	1.5	0.8	0.4	0	0	0	0
27	0	9.3	0.8	3.1	1.3	1.5	0.8	0.4	0	0	0	0
28	0	1.8	0.8	1.4	1.3	1.5	0.8	0.4	0	0	0	0
29	0	1.2	0.6	1.3	1.3	1.4	0.7	0.4	0	0	0	0
30	0	1.0	0.9	1.3		1.3	0.6	0.4	0	0	0	0
31	0		0.9	1.3		1.3		0.4		0	0	
	0	92.7	25.8	39.2	37.3	43.1	26.3	13.6	5.9	0.1	0	0
MEAN	0	3.09	0.83	1.26	1.29	1.39	0.88	0.44	0.20	0.003	0	0
ACRE-FEET	0	184.	51.	78.	71.	85.	52.	27.	12.	0.2	0	0

Remarks:

YEAR OR PERIOD MEAN 0.77
ACRE-FEET 560.

STATION F280-R
SANTA FE CHANNEL below Santa Fe Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°06'46", LONG. 117°58'16", ON THE LEFT (SOUTH) BANK OF SANTA FE CHANNEL (THE DIVERSION CANAL), 400 FEET DOWNSTREAM FROM THE STILLING BASIN OUTLET AT SANTA FE DAM AND 1.5 MILES NORTH OF BALDWIN PARK. ELEVATION OF ZERO GAGE HEIGHT, 401.94 FEET.

DRAINAGE AREA: CONTROLLED.

CHANNEL AND CONTROL: CHANNEL - SAND AND GRAVEL.
CONTROL - CONCRETE APRON THREE FEET WIDE, TEN FEET BELOW STATION.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM FOOTBRIDGE ABOVE CONTROL.

RECORDER: AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW REGULATED BY FIVE GATED OPENINGS FROM THE STILLING BASIN OUTLET OF SANTA FE DAM TO SANTA FE CHANNEL.

RECORDS AVAILABLE: OCTOBER 1, 1942 TO MAY 12, 1944, FLOW DETERMINED BY GATE OPENINGS AND MEASUREMENTS. RECORDER RECORDS FROM MAY 12, 1944 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
NO FLOW ENTIRE SEASON.
1960-61
NO FLOW ENTIRE SEASON.
1943-61
MAXIMUM 839 SECOND-FEET, NOVEMBER 3, 1952;
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, AND THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

STATION F125-R
SANTIAGO CREEK above Little Rock Creek

LOCATION: WATER-STAGE RECORDER, LAT. 34°27'59", LONG. 118°01'23", ON THE RIGHT (SOUTH) BANK ABOUT 1000 FEET ABOVE LITTLE ROCK CREEK, ELEVATION OF GAGE ABOUT 3280 FEET.

DRAINAGE AREA: 11.2 SQUARE MILES.

CHANNEL AND CONTROL: SAND, GRAVEL AND BOULDERS.
CONTROL - CONCRETE AND RUBBLE WALL, BUILT APRIL 1960.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING NEAR GAGE; HIGH FLOWS MEASURED FROM CABLE CAR BELOW GAGE.

RECORDER: AN H.C.F. CONTINUOUS RECORDER IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

RECORDS AVAILABLE: SEPTEMBER 29, 1953 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 1.6 SECOND-FEET FEBRUARY 2.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM 0.5 SECOND-FOOT AUGUST 5.
MINIMUM NO FLOW MOST OF YEAR.
1953-61
MAXIMUM 107 SECOND-FEET APRIL 3, 1958.
MINIMUM NO FLOW PART OF EACH YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D/74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F125-R

Daily discharge, in second-feet of SANTIAGO CREEK above Little Rock Creek, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0.6	0.7	a 0.2	e 0.4	0	0	0	0
2	0	0	0	0	1.3	0.7	0.2	0.3	0	0	0	0
3	0	0	0	0	1.1	0.7	0.2	0.2	0	0	0	0
4	0	0	0	0	0.9	0.6	0.2	0.2	0	0	0	0
5	0	0	0	0	0.8	0.5	0.1	0.1	0	0	0	0
6	0	0	0	0	0.7	0.4	0.1	0.1	0	0	0	0
7	0	0	0	0	0.7	0.4	0.1	+	0	0	0	0
8	0	0	0	0	0.6	0.3	0.1	e +	0	0	0	0
9	0	0	0	0	0.6	0.3	0.1	0	0	0	0	0
10	0	0	0	0	0.6	0.3	0.1	0	0	0	0	0
11	0	0	0	0	0.6	0.3	0.1	0	0	0	0	0
12	0	0	0	0	0.5	0.3	0.1	0	0	0	0	0
13	0	0	0	0	0.5	0.3	0.1	0	0	0	0	0
14	0	0	0	0	0.5	0.3	0.1	0	0	0	0	0
15	0	0	0	0	0.4	0.3	0.1	0	0	0	0	0
16	0	0	0	0	0.4	0.3	+	0	0	0	0	0
17	0	0	0	0	0.3	0.3	+	0	0	0	0	0
18	0	0	0	+	0.3	0.3	+	0	0	0	0	0
19	0	0	0	0.1	0.3	0.3	0	0	0	0	0	0
20	0	0	0	0.2	0.3	0.3	0	0	0	0	0	0
21	0	0	0	0.2	0.3	0.3	0	0	0	0	0	0
22	0	0	0	0.2	0.3	0.3	a 0	0	0	0	0	0
23	0	0	0	0.3	0.3	0.3	+	0	0	0	0	0
24	0	0	0	0.4	0.3	0.3	+	0	0	0	0	0
25	0	0	0	0.6	0.3	0.3	+	0	0	0	0	0
26	0	0	0	0.8	0.3	0.3	e 0.1	0	0	0	0	0
27	0	0	0	0.8	0.3	0.3	0.4	0	0	0	0	0
28	0	0	0	0.7	0.3	0.3	0.7	0	0	0	0	0
29	0	0	0	0.7	0.6	a 0.3	0.6	0	0	0	0	0
30	0	0	0	0.6		a 0.3	e 0.5	0	0	0	0	0
31	0		0	0.6		a 0.3		0		0	0	
	0		0		15.0		4.2		0		0	
		0		6.2		11.2		1.3		0		0
MEAN	0	0	0	0.20	0.52	0.36	0.14	.042	0	0	0	0
ACRE-FEET	0	0	0	12.3	30.	22.	8.3	2.6	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN .104
ACRE-FEET 75.

74D714M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F125-R

Daily discharge, in second-feet of SANTIAGO CREEK above Little Rock Creek for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	+	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0		0	0	0	0	0	0	0	0	+	0
MEAN	0	0	0	0	0	0	0	0	0	0	+	0
ACRE-FEET	0	0	0	0	0	0	0	0	0	0	+	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN + ACRE-FEET +

STATION F278-R
SAWPIT CREEK below Sawpit Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'32", LONG. 117°59'16", ON THE RIGHT (NORTH) SIDE OF THE STREAM, ABOUT 500 FEET DOWNSTREAM FROM SAWPIT DAM AND ABOUT 2.5 MILES NORTH OF MONROVIA. ELEVATION OF GAGE 1199.27 FEET.

DRAINAGE AREA: 3.3 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - SAND AND GRAVEL. A BROAD-CRESTED WEIR FORMS THE CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM FOOTBRIDGE AT THE STATION.

RECORDER: AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW REGULATED BY SAWPIT DAM. STATION F278-R MEASURES OUTLET DISCHARGE. SPILLWAY DISCHARGE ENTERS SAWPIT CREEK BELOW THE STATION.

DIVERSIONS: CITY OF MONROVIA DIVERTS FLOW ABOVE SAWPIT DAM.

RECORDS AVAILABLE: FEBRUARY 6, 1942 TO SEPTEMBER 30, 1961. OUTFLOW RECORDS FROM SAWPIT DAM ARE AVAILABLE COMMENCING OCTOBER 1, 1931.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 34 SECOND-FEET APRIL 27.
MINIMUM NO FLOW PART OF YEAR.
1960-61
MAXIMUM 5.9 SECOND-FEET JANUARY 26.
MINIMUM NO FLOW SEVERAL DAYS IN OCTOBER.
1942-61
MAXIMUM 665 SECOND-FEET, MARCH 2, 1938, BASED ON DAM OPERATION RECORDS AND INCLUDING SPILLWAY FLOW. SPILLWAY FLOW BY-PASSED STATION.
MAXIMUM OUTLET DISCHARGE FROM SAWPIT DAM, 284 SECOND-FEET, JANUARY 23, 1943.
MINIMUM NO FLOW VARIOUS PERIODS EACH YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F278-R

Daily discharge, in second-feet of SAWPIT CREEK below Sawpit Dam, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	0	1.5	1.3	0.4	b 0.6	0.1	+	+	0
2				0	1.2	b 0.9	0.4	0.6	0.1			0
3				0	0.6	0.9	0.3	0.6	0.1			0
4				0	0.5	1.0	0.3	b 0.6	0.1			0
5				0	0.5	0.9	0.3	0.6	0.2			0
6				0	0.5	0.8	0.3	0.6	0.2	+		0
7				0	0.5	0.6	0.3	0.6	0.2	0.1		0
8				0	1.6	0.6	0.3	0.6	0.3	0		0
9				0	1.4	0.6	b 0.3	0.5	0.4	0		0
10				0	1.0	0.6	0.3	0.4	0.3	0		0
11				0	0.8	0.6	0.2	0.4	0.3	0		0
12				0	0.5	0.6	0.2	0.4	0.3	0		0
13			+	0	0.5	0.6	b 0.2	0.4	0.3	0		+
14			c 1.8	0	a 0.5	0.6	0.2	0.4	0.3	0		0
15			0	0	0.5	0.6	0.2	0.5	0.3	0		0
16			0	0	0.4	0.6	0.2	0.5	0.3	0		0
17			0	0	a 0.4	0.6	0.2	0.5	0.2	0		0
18			0	0	0.4	0.6	0.2	0.5	0.2	0		0
19			0	0	0.4	0.6	0.2	a 0.4	0.2	0		0
20			0	0	0.4	0.5	0.2	0.3	0.2	0		+
21			0	+	0.3	0.5	0.2	0.3	0.2	0		0
22			0	0.4	0.3	0.4	0.2	0.3	0.2	0		0
23			0	0.5	0.3	0.4	0.2	0.3	0.2	0		0
24			0	0.5	0.3	0.4	0.4	0.3	0.2	0		0
25			0	0.6	0.3	0.4	0.2	0.2	0.2	0		0
26			0	b 0.3	0.3	0.4	0.2	0.2	0.2	0		0
27			0	b 0.3	0.3	0.5	4.3	0.2	0.2	0		+
28			0	0.3	0.3	0.7	1.5	a 0.2	0.1	0		0
29			0	b 0.3	2.6	0.6	0.6	0.2	+	0		0
30		+	0	b 0.3		0.4	b 0.6	0.2	+	0		0
31	+		0	b 0.3		0.4		0.2		0	+	
	+		1.8		19.1		13.6		6.1		+	
		+		3.8		19.2		12.6		0.1		+
MEAN	+	+	0.06	0.12	0.66	0.62	0.45	0.42	0.21	+	+	+
ACRE-FEET	+	+	3.6	7.5	38.	38.	27.	25.	12.	0.2	+	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.21
ACRE-FEET 151.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F278-R

Daily discharge, in second-feet of SAWPIT CREEK below Sawpit Dam, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	a 0.1	0.2	0.1	0.3	0.3	0.3	0.3	0.4	0.1	+	+
2	0	a 0.1	0.3	+	0.3	0.3	0.2	0.2	0.2	0.1	+	
3	0	0.3	0.3		0.3	0.3	0.1	0.2	0.2	0.1	0.1	
4	+	0.1	0.3		0.3	0.3	0.2	0.2	0.2	0.3	+	+
5	0	0.6	0.3		0.3	0.2	+	0.2	0.2	0.2		0.1
6	0	0.4	0.3		0.3	0.2	0.2	0.2	+	0.1		+
7	0	a 0.2	0.2		0.4	0.2	0.2	0.2	+	+	+	
8	0	0.2	0.2		0.3	0.2	0.1	0.1	0.1	+	0.1	
9	+	0.2	0.2	+	0.3	0.1	+	0.2	0.1	+	+	
10	0.2	a 0.2	0.2	0.1	0.3	+	0.2	0.1	0.1	0.1	+	+
11	0.1	0.2	0.2	0.1	0.3		+	0.1	0.1	0.2	+	e 0.3
12	0.1	1.0	0.2	+	0.3		0.1	0.1	0.1	+	0.1	0.7
13	+	0.6	0.2		0.3	+	0.2	0.1	0.2	+	0.1	1.2
14		0.4	0.2		0.5	0.1	0.1	0.1	0.2	+	0.1	0.9
15		0.4	0.2		0.3	0.4	0.1	0.2	0.1	0.1	0.2	1.0
16		0.3	0.2	+	0.4	0.2	0.2	0.1	0.1	0.2	+	0.9
17		0.3	0.2	0.1	0.4	0.2	0.2	0.1	0.1	0.1		0.9
18		0.3	0.2	0.1	0.5	0.3	0.3	0.1	0.2	0.2		0.9
19		0.3	0.2	0.1	0.3	0.1	0.1	+	+	+		1.0
20		0.3	0.2	0.1	0.2	0.1	0.2	+	0.1	+	+	1.5
21		0.3	0.1	0.1	0.3	0.1	0.1	+	0.1	0.1	0.1	1.4
22		0.3	0.1	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1	1.4
23		0.3	0.1	0.2	0.2	0.2	0.2	+	0.2	0.1	0.1	1.3
24		0.3	0.1	0.2	0.2	0.2	0.2	+	0.1	0.1	+	1.3
25		0.3	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.3		1.3
26		0.4	0.2	1.7	0.3	0.3	0.2	+	0.2	+		1.3
27		0.3	0.2	0.3	0.3	0.3	0.1		0.3			1.3
28		0.2	0.1	0.3	0.3	0.5	+		0.1		+	1.2
29		0.3	0.1	0.2		0.2	0.1		0.1		0.1	1.1
30		0.3	0.1	0.3		0.2	0.2		0.1		+	e 1.1
31	+		0.1	0.3		0.3		+		+	+	
	0.4		5.9		8.6		4.4		4.1		1.1	
		9.5		4.7		6.3		3.1		2.5		22.1
MEAN	0.01	0.32	0.19	0.15	0.31	0.20	0.15	0.10	0.14	0.08	0.04	0.74
ACRE-FEET	0.8	19.	12.	9.3	17.	12.	8.7	6.1	8.1	5.0	2.2	44.

Remarks: + = 0.05 CFS

YEAR OR PERIOD MEAN 0.20
ACRE-FEET 144.

STATION U5-R
SAWPIT CREEK below Monrovia Canyon

LOCATION: WATER-STAGE RECORDER AND BROAD-CRESTED WEIR CONTROL, LAT. 34°10'23", LONG. 117°59'18", IN SW 1/4, SE 1/4, NW 1/4, SEC. 13, T.1N, R.11W, ON LEFT BANK, 0.1 MILE DOWNSTREAM FROM MONROVIA CREEK, ALTITUDE OF GAGE ABOUT 1100 FEET.

DRAINAGE AREA: 5.3 SQUARE MILES.

RECORDS AVAILABLE: NOVEMBER 1916 TO SEPTEMBER 1961.

AVERAGE DISCHARGE: FORTY-FIVE YEARS (1917-1961) 1.10 SECOND-FEET: INCLUDING DIVERSION BY MONROVIA PIPE LINE, 45 YEARS, 2.45 SECOND-FEET.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 109 SECOND-FEET APRIL 27 (GAGE HEIGHT 4.15 FEET).
MINIMUM NO FLOW DURING MOST OF YEAR.
1960-61
MAXIMUM 19 SECOND-FEET NOVEMBER 12, (GAGE HEIGHT 3.52 FEET).
MINIMUM NO FLOW DURING MOST OF YEAR.
1916-61
MAXIMUM ABOUT 1800 SECOND-FEET MARCH 2, 1938 (REVISED).
MINIMUM NO FLOW DURING PARTS OF MOST YEARS.

REMARKS: RECORDS POOR. REGULATION AT SAWPIT DAM ABOVE STATION AND DIVERSIONS BY CITY OF MONROVIA.

COOPERATION: RECORDS FURNISHED BY THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH. THIRTEEN DISCHARGE MEASUREMENTS FURNISHED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

7ED7-6M Cdb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U5-R

Daily discharge, in second-feet of SAWPIT CREEK below Monrovia Canyon, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	3.3	1.9	0	1.0	0	0	0	0
2	0	0	0	0	2.6	1.5	0	0.5	0	0	0	0
3	0	0	0	0	0.3	1.1	0	0.5	0	0	0	0
4	0	0	0	0	0.6	1.1	0	0.8	0	0	0	0
5	0	0	0	0	0.4	1.0	0	0.4	0	0	0	0
6	0	0	0	0	0.6	1.0	0	0	0	0	0	0
7	0	0	0	0	0.6	0.9	0	0	0	0	0	0
8	0	0	0	0	2.1	0.4	0	0	0	0	0	0
9	0	0	0	0	0.4	0.4	0	0	0	0	0	0
10	0	0	0	0.1	0.3	0.5	0	0	0	0	0	0
11	0	0	0	0	0.1	0.1	0.2	0	0	0	0	0
12	0	0	0	0.5	0.1	0.1	0.7	0	0	0	0	0
13	0	0	0	0.1	0.1	1.2	0.2	0	0	0	0	0
14	0	0	1.6	0	0.1	0.5	0.1	0	0	0	0	0
15	0	0	0	0	0.1	0	0.1	0	0	0	0	0
16	0	0	0	0	0.1	0	0.1	0	0	0	0	0
17	0	0	0	0	0.1	0	0.1	0	0	0	0	0
18	0	0	0	0	0.3	0	0	0	0	0	0	0
19	0	0	0	0	0.3	0	0	0	0	0	0	0
20	0	0	0	0	0.1	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0.1	0	0	0	0	0
22	0	0	0	0	0.4	0	0.2	0	0	0	0	0
23	0	0	0	0	0.3	0	0.5	0	0	0	0	0
24	0	0	0.1	0	0	0	0.8	0	0	0	0	0
25	0	0	0.3	0	0.3	0	0.4	0	0	0	0	0
26	0	0	0.1	0	0.7	0	0.4	0	0	0	0	0
27	0	0	0.1	0	0.8	0.2	1.4	0	0	0	0	0
28	0	0	0	0	0.9	1.5	2.2	0	0	0	0	0
29	0	0	0	0	6.5	0.8	3.2	0	0	0	0	0
30	0	0	0	0		0	1.8	0	0	0	0	0
31	0		0	0		0		0		0	0	
	0	0	2.2	0.7	22.5	14.2	25.1	3.2	0	0	0	0
MEAN	0	0	0.07	0.02	0.78	0.46	0.84	0.10	0	0	0	0
ACRE-FEET	0	0	4.4	1.4	45.	28.	50.	63.	0	0	0	0

Remarks:

YEAR OR PERIOD MEAN 0.19
ACRE-FEET 135.

7-D174M Gb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. U5-R

Daily discharge, in second-feet of SAWPIT CREEK below Monrovia Canyon, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0.3	0	0.3	0	0	0.1	0	0	0	0
2	0	0	0.3	0	0.3	0	0	0.1	0	0	0	0
3	0	0.3	0.2	0	0.3	0	0	0	0	0	0	0
4	0	0	0.2	0	0.3	0.1	0	0	0	0	0	0
5	0	0.8	0.2	0	0.2	0.1	0.1	0	0	0	0	0
6	0	0.1	0.1	0	0.2	0	0.2	0	0	0	0	0
7	0	0.1	0.1	0	0.2	0	0.1	0	0	0	0	0
8	0	0.1	0.1	0	0.2	0	0	0	0	0	0	0
9	0	0.5	0.1	0	0.1	0	0	0	0	0	0	0
10	0.2	0.4	0.1	0	0.1	0	0	0	0	0	0	0
11	0	0.3	0	0	0.1	0	0	0	0	0	0	0
12	0	2.8	0	0	0.1	0	0	0	0	0	0	0
13	0.2	0.4	0	0	0.1	0	0	0	0	0	0	0
14	0.2	0.4	0	0	0	0	0	0	0	0	0	0
15	0	0.3	0	0	0	0.3	0	0.1	0	0	0	0
16	0	0.3	0	0	0	0	0	0	0	0	0	0
17	0	0.3	0	0	0	0.1	0	0	0	0	0	0
18	0	0.2	0	0	0	0.1	0	0	0	0	0	0
19	0	0.2	0	0	0	0.1	0	0	0	0	0	0.7
20	0	0.2	0	0	0	0.2	0	0	0	0	0	1.0
21	0	0.1	0	0	0	0.1	0.1	0	0	0	0	1.0
22	0	0	0	0	0	0	0.4	0	0	0	0	1.0
23	0	0	0	0	0	0	0.5	0	0	0	0	1.0
24	0	0	0	0	0	0.1	0.2	0	0	0	0	1.1
25	0	0.3	0	0	0	0.1	0.1	0	0	0	0	1.1
26	0	0.4	0	2.6	0	0.1	0.1	0	0	0	0	1.1
27	0	0.3	0	0.6	0	0.5	0	0	0	0	0	1.1
28	0	0.7	0	0.5	0	0.2	0	0	0	0	0	1.1
29	0	0.5	0	0.4		0.1	0	0	0	0	0	1.0
30	0	0.4	0	0.4		0	0	0	0	0	0	1.0
31	0		0	0.3		0		0		0	0	
	0.6	10.4	1.7	4.8	2.5	2.2	1.8	0.3	0	0	0	12.2
MEAN	0.02	0.35	0.05	0.15	0.09	0.07	0.06	0.01	0	0	0	0.41
ACRE-FEET	1.2	21.	3.4	9.5	5.0	4.4	3.6	0.6	0	0	0	24.

Remarks:

YEAR OR PERIOD MEAN 0.10
ACRE-FEET 73.

STATION F194B-R
SAWPIT WASH below Arrow Highway

LOCATION: WATER-STAGE RECORDER, LAT. 34°06'22", LONG. 118°00'22", ON THE LEFT (EAST) BANK OF THE CHANNEL ABOUT 2000 FEET BELOW ARROW HIGHWAY AND 3 MILES SOUTH OF MONROVIA. ELEVATION OF ZERO GAGE HEIGHT 322.79 FEET.

DRAINAGE AREA: 16.1 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE 35 FEET WIDE AND 15 FEET DEEP. BOTTOM IS WARPED 0.3 FOOT TOWARD STATION.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM FOOTBRIDGE 80 FEET ABOVE STATION.

RECORDER: A STEVENS TYPE A-35 RECORDER WAS IN SERVICE FROM DECEMBER 5, 1960 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY SAWPIT DAM, SAWPIT DEBRIS BASIN, BUENA VISTA PIT, SANTA FE DAM AND SEVERAL DEBRIS BASINS.

DIVERSIONS: THE CITY OF MONROVIA DIVERTS WATER FROM MONROVIA CREEK AND SAWPIT CREEK FOR MUNICIPAL USE. THE FLOOD CONTROL DISTRICT DIVERTS FOR SPREADING AT THE MOUTH OF SAWPIT CANYON AND TO BUENA VISTA PIT.

RECORDS AVAILABLE: DECEMBER 5, 1960 TO SEPTEMBER 30, 1961. (AT STATION F194-R FROM FEBRUARY 22, 1932 TO SEPTEMBER 1935)

EXTREMES OF DISCHARGE:
1960-61
MAXIMUM 420 SECOND-FEET JANUARY 26.
MINIMUM PLUS FLOW VARIOUS TIMES.
(MAXIMUM OR MINIMUM NOT DETERMINED FOR OCTOBER OR NOVEMBER 1961.)

ACCURACY: GOOD

OPERATION: LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL COUNTY FLOOD CONTROL DISTRICT. CONSTRUCTED BY THE U.S. CORPS OF ENGINEERS.

760714M C&h 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

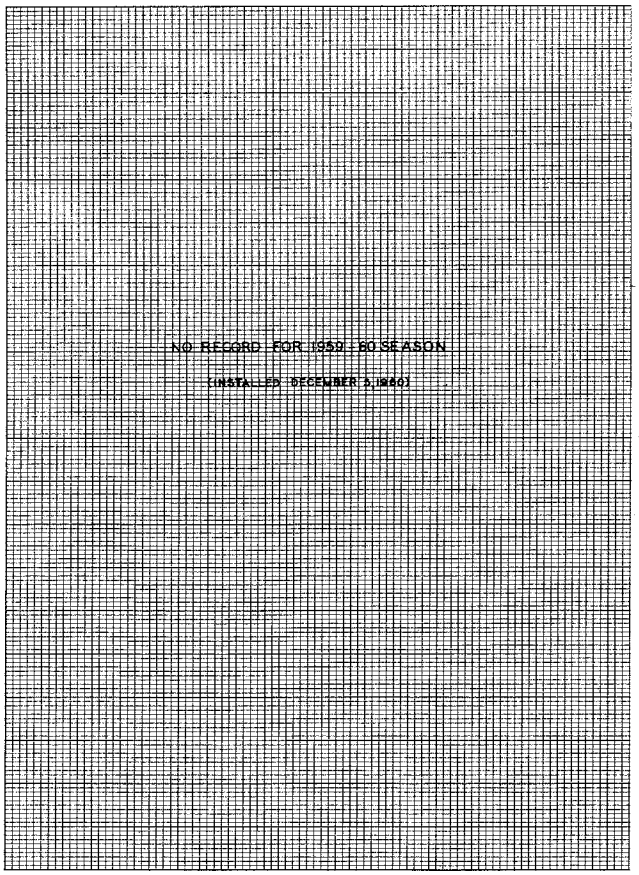
Sta. No. F19B-R

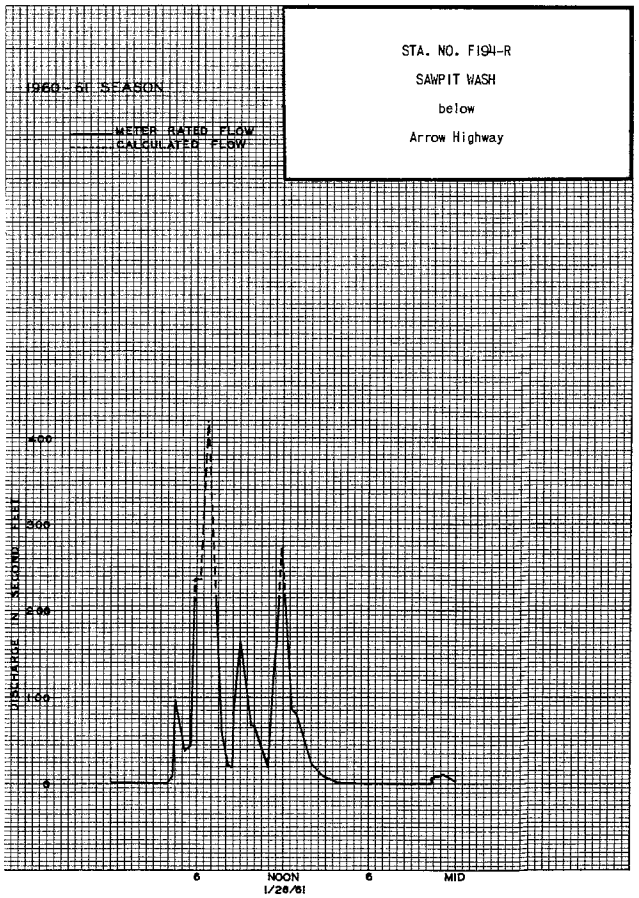
Daily discharge, in second-feet of SAWPIT WASH below Arrow Highway, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1			RECORDER INSTALLED 12-5-60	0.5	0.7	0.1	0.3	0.1	0.2	0.1	0.1	0.1
2				0.3	0.4	0.1	0.2	0.1	0.2	+	+	0.1
3				0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
4				0.1	0.2	0.4	0.2	0.2	0.1	0.1	0.1	0.1
5				0.1	0.1	0.4	0.2	0.1	0.2	+	+	0.1
6			0.1	0.1	0.1	0.4	0.7	+	0.2	0.1	+	0.1
7			+	0.1	0.1	0.3	0.1	0.1	0.1	0.2	+	0.2
8			+	+	0.1	0.2	0.1	+	0.1	0.2	0.1	0.1
9			0.2	0.1	0.1	0.2	0.1	0.2	0.3	0.1	0.3	0.1
10			0.1	0.2	0.1	0.4	0.1	0.1	0.3	+	0.1	+
11			0.1	0.2	0.1	0.3	0.2	+	0.4	+	0.1	0.1
12			0.2	+	0.2	0.1	0.4	+	0.1	0.1	+	0.1
13			0.8	0.1	0.2	0.2	0.4	0.2	+	0.1	+	0.1
14			0.7	0.4	0.2	0.3	0.5	+	0.2	+	0.1	0.2
15			0.7	0.3	0.1	17.6	0.1	+	0.1	+	0.1	0.2
16			0.7	0.3	+	0.1	0.2	+	0.1	0.3	0.1	0.1
17			0.6	0.3	+	0.2	+	0.2	+	+	0.1	0.1
18			0.6	0.1	0.1	0.2	0.1	0.2	+	0.1	0.1	0.1
19			0.5	0.1	+	0.2	0.2	0.2	+	0.1	0.1	0.1
20			0.5	0.4	0.1	0.2	0.1	0.2	0.1	0.3	0.1	0.2
21			0.6	0.4	0.1	+	0.1	0.1	0.1	0.2	0.1	0.7
22			0.6	0.5	0.1	+	0.5	0.1	0.1	0.1	0.1	0.1
23			0.7	0.3	0.1	0.4	0.2	0.4	0.1	+	0.2	0.1
24			0.6	0.3	0.1	1.4	+	0.1	+	+	0.2	0.1
25			0.5	2.6	+	3.1	0.2	0.6	0.1	+	0.1	0.2
26			0.5	50	+	0.6	+	0.2	0.1	0.1	0.2	1.3
27			0.4	0.9	+	0.7		0.2	0.1	0.2	+	0.1
28			0.4	0.6	+	0.9		0.3	0.2	0.2	0.1	0.1
29			0.3	0.5		0.7		0.4	0.1	0.2	0.1	0.1
30			0.2	0.6		0.7	+	+	0.2	0.1	0.2	+
31			0.3	1.0		0.7		+		0.1	0.1	
			10.9	61.6	3.5	31.2	5.3	4.4	3.9	3.2	3.0	5.1
MEAN			0.44	1.99	0.12	1.02	0.18	0.14	0.13	0.10	0.10	0.17
ACRE-FEET			22.	122.	6.9	62.	11.	8.7	7.7	6.3	6.0	10.

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN INC.
ACRE-FEET 262.6 INC.





STATION F301-R
SAWTELLE-WESTWOOD CHANNEL above Culver Boulevard

LOCATION: WATER-STAGE RECORDER, LAT. 33°59'56", LONG. 118°24'55", ON THE RIGHT (SOUTH) CHANNEL WALL, 141 FEET ABOVE CULVER BOULEVARD BRIDGE. ELEVATION OF ZERO GAGE HEIGHT 21.57 FEET ABOVE MEAN SEA LEVEL, U.S.G.S. DATUM.

DRAINAGE AREA: 22.96 SQUARE MILES.

CHANNEL AND CONTROL: RECTANGULAR CONCRETE CHANNEL 40 FEET WIDE AND 13 FEET DEEP. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM FOOTBRIDGE AT STATION.

RECORDER: A STEVENS TYPE A-35B RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION AND/OR DIVERSIONS: STONE CANYON RESERVOIR, SOUTHERN CALIFORNIA WATER COMPANY SPILLS FLOW UP TO 5.0 SECOND-FEET INTO SAWTELLE-WESTWOOD CHANNEL ABOVE CHARNOCK ROAD FOR SHORT PERIODS NEARLY EVERY DAY.

RECORDS AVAILABLE: JANUARY 22, 1951 TO SEPTEMBER 30, 1961, AT STATION F185-R, SEPULVEDA CREEK AT CHARNOCK ROAD. RECORDER RECORDS AVAILABLE SEPTEMBER 15, 1932 TO MARCH 3, 1937; AUGUST 11, 1937 TO MARCH 2, 1938, AND JULY 7, 1938 TO MAY 29, 1950. FROM MAY 29, 1950 TO JANUARY 22, 1951, NO RECORD DUE TO CHANNEL CONSTRUCTION.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 3310 SECOND-FEET APRIL 27.
MINIMUM 0.3 SECOND-FOOT NOVEMBER 29.
1960-61
MAXIMUM 2950 SECOND-FEET NOVEMBER 5.
MINIMUM 0.6 SECOND-FOOT VARIOUS TIMES DURING YEAR.
1951-61
MAXIMUM 4240 SECOND-FEET JANUARY 16, 1952.
MINIMUM 0.3 SECOND-FEET NOVEMBER 29, 1959.

ACCURACY: GOOD FOR HIGH FLOWS; POOR FOR EXTREME LOW FLOWS.

OPERATION: LOCATED AND CONSTRUCTED BY THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

70D74M Glb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F301-R

Daily discharge, in second-feet of SAWTELLE-WESTWOOD CHANNEL above Culver Boulevard, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	b 1.5	3.1	0.4	0.6	218	3.1	1.0	1.0	1.5	2.0	2.0	1.0
2	1.5	2.5	0.4	1.0	5.5	1.5	1.0	2.0	1.5	1.5	1.5	1.5
3	1.5	2.0	0.8	1.0	1.0	1.5	1.0	1.5	2.0	1.5	2.0	1.0
4	1.5	2.0	1.1	1.0	1.0	1.0	1.5	2.0	1.5	1.5	2.0	1.0
5	2.0	2.5	0.6	2.0	1.0	1.0	1.0	1.0	2.0	1.5	2.0	2.5
6	2.0	1.1	0.8	1.5	1.0	1.5	1.5	2.0	2.5	1.0	1.5	2.5
7	2.0	1.1	1.1	1.0	1.0	1.5	1.0	1.5	2.0	1.5	1.0	2.0
8	1.5	0.8	0.9	1.5	37	1.5	1.0	1.5	1.5	1.5	2.0	1.5
9	1.5	1.1	0.4	3.1	2.0	1.0	1.0	1.5	2.0	1.5	2.0	1.5
10	1.5	1.1	1.4	153	13.9	1.0	1.0	2.0	1.5	1.5	2.0	1.5
11	2.5	1.3	0.6	295	0.6	1.0	2.0	2.0	1.5	1.5	1.5	2.0
12	2.0	1.1	1.1	47	1.0	1.0	2.0	2.0	1.5	1.5	2.0	2.5
13	1.5	1.1	0.4	1.5	1.0	1.0	1.5	1.5	1.5	1.5	2.0	2.5
14	1.5	0.8	0.6	50	1.0	1.5	1.5	1.0	1.0	1.5	1.5	2.5
15	1.5	0.8	1.1	18.0	1.0	2.0	2.0	1.0	1.0	2.0	2.0	2.0
16	1.5	1.1	0.8	1.0	1.0	1.5	1.5	1.5	1.0	2.0	2.0	2.0
17	1.5	0.8	0.6	1.0	2.5	1.5	1.5	1.0	1.0	1.0	2.5	2.0
18	1.5	0.8	0.8	1.5	1.5	1.0	2.5	1.0	1.0	2.0	3.1	2.0
19	1.5	0.8	1.1	1.5	1.0	1.5	2.5	1.0	1.5	1.5	2.5	2.5
20	b 1.5	1.1	1.2	1.0	1.0	1.0	2.0	1.0	1.5	2.5	3.1	2.0
21	1.5	1.1	14.6	1.5	1.0	1.5	1.5	1.0	1.0	2.5	2.0	2.0
22	2.0	0.8	b 0.8	1.0	1.0	1.0	3.1	0.6	1.5	2.5	3.1	2.0
23	2.0	1.1	b 0.7	1.0	1.5	1.0	1.5	1.0	1.0	2.0	2.0	2.0
24	2.0	1.3	130	1.0	1.0	1.0	1.0	1.0	1.5	2.0	2.5	1.5
25	1.0	1.1	7.2	39	1.0	1.0	2.5	1.5	1.0	2.5	1.5	1.5
26	2.0	0.6	1.5	1.5	1.5	1.5	68	1.0	1.5	2.5	1.5	2.5
27	1.5	0.8	1.0	2.0	1.5	3.5	297	1.0	5.2	2.5	1.5	2.5
28	1.5	0.8	3.1	1.0	31	14.7	3.2	2.0	4.5	2.0	1.5	1.5
29	1.5	0.3	1.5	1.0	80	b 2.0	1.0	1.0	3.8	2.5	1.5	1.0
30	2.0	0.4	1.0	1.0		b 1.5	1.0	1.0	3.1	2.5	2.0	2.0
31	1.5		1.0	1.0		b 1.5		1.0		1.5	2.0	
	515		178.6		412.5		409.8		54.6		61.3	
		351		634.2		57.8		41.1		57.0		56.5
MEAN	1.66	1.17	5.76	20.5	14.2	1.86	13.7	1.33	1.82	1.84	1.98	1.88
ACRE-FEET	102.	70.	354.	1260.	818.	115.	813.	82.	108.	113.	122.	112.

Remarks:

YEAR OR PERIOD MEAN 5.6
ACRE-FEET 4070.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

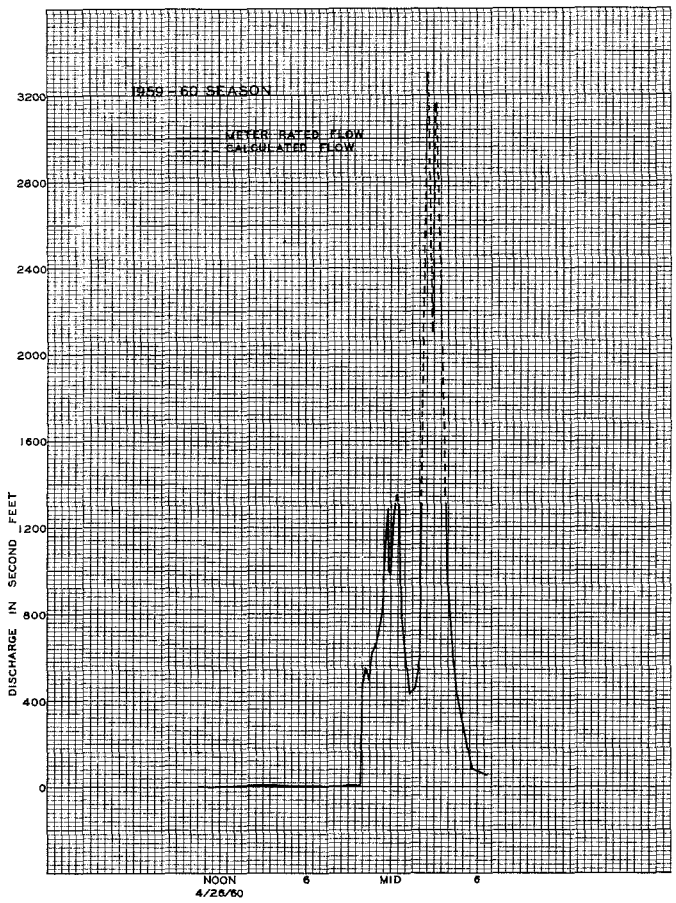
Sta. No. F301-R

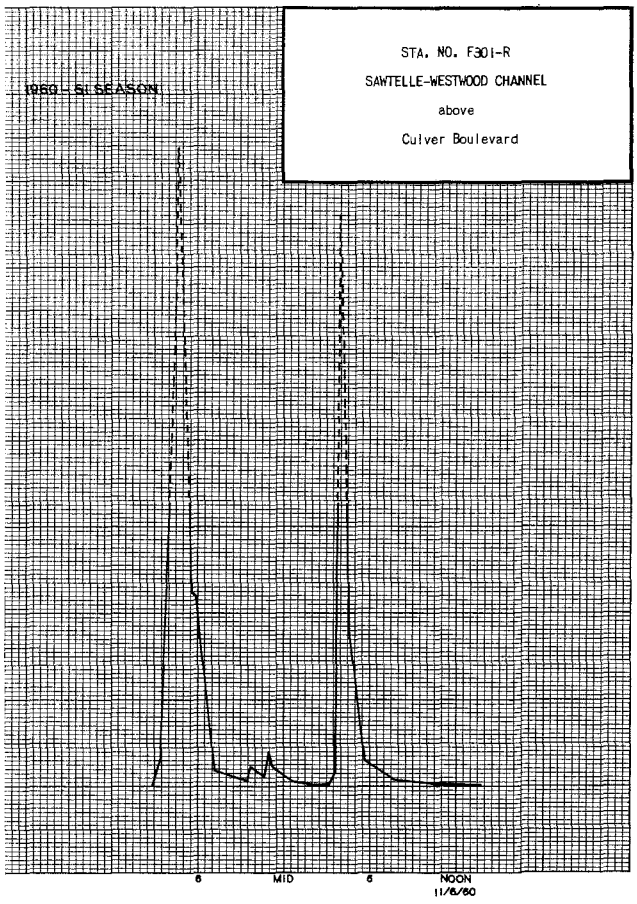
Daily discharge, in second-feet of SAWTELLE-WESTWOOD CHANNEL above Culver Boulevard for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	1.5	2.0	9.8	1.0	2.0	1.5	1.5	2.0	2.0	2.0	0.6	2.0
2	1.5	1.5	18.3	1.5	1.5	2.5	1.0	2.0	2.5	1.5	0.6	2.0
3	2.0	2.8	1.5	1.5	0.6	2.0	1.5	2.0	2.0	1.5	1.0	2.0
4	1.5	b 2.0	1.5	2.0	0.6	1.0	1.0	1.5	2.0	1.0	1.0	2.5
5	1.5	1.5.0	1.5	1.5	0.6	1.5	2.0	2.0	2.0	2.0	1.0	2.5
6	2.0	99	1.5	1.5	1.0	2.0	2.0	1.5	2.0	1.5	0.6	2.5
7	2.0	b 2.0	1.0	1.5	2.0	1.5	3.1	2.0	1.5	1.5	1.0	2.5
8	2.0	b 2.0	1.5	1.0	2.5	1.5	2.5	2.5	1.5	1.5	1.0	3.1
9	2.0	b 2.0	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0
10	2.0	2.0	1.5	2.0	2.0	2.5	2.0	2.5	1.5	2.5	1.5	2.0
11	2.0	1.0	1.5	2.5	2.0	2.0	2.0	1.5	1.5	2.5	21	3.1
12	2.0	93	1.0	2.0	2.0	2.5	2.0	1.5	2.0	2.5	5.2	2.5
13	1.5	2.0	1.0	2.0	1.5	2.5	2.0	1.5	2.0	2.5	b 2.0	2.5
14	1.5	1.5	2.0	2.0	2.0	2.0	2.5	1.0	2.0	2.5	2.0	1.5
15	0.6	2.0	1.0	1.5	2.0	59	1.5	2.5	1.5	2.5	2.0	2.0
16	0.6	1.0	2.0	1.5	1.5	1.5	1.5	2.0	1.5	2.5	b 2.0	2.0
17	1.5	1.5	1.0	1.0	1.5	1.0	2.0	2.0	1.5	2.0	2.5	1.5
18	1.0	1.5	0.6	1.0	1.5	1.0	2.0	1.5	0.6	2.0	2.0	2.0
19	1.5	1.0	1.5	0.6	1.0	1.0	2.0	2.5	2.0	2.0	2.0	2.0
20	2.0	1.5	1.5	0.6	1.5	1.5	2.0	2.0	2.0	2.0	1.5	2.5
21	2.0	1.5	1.5	0.6	1.5	1.5	2.5	2.0	1.5	1.0	1.5	2.5
22	2.0	2.0	1.5	0.6	0.6	1.5	18.2	2.5	1.5	b 1.0	1.5	2.5
23	2.0	2.0	1.5	0.6	0.6	1.5	b 2.0	2.0	1.5	1.0	1.5	2.0
24	1.5	1.0	1.0	0.6	1.0	8.1	2.0	2.0	1.0	1.5	1.5	1.5
25	1.0	1.5	1.5	20	0.6	3.8	2.0	2.0	1.0	1.5	2.0	2.0
26	2.0	104	1.5	204	0.6	1.5	2.0	2.0	1.0	b 1.5	2.5	1.5
27	1.5	1.5	1.5	2.5	2.0	1.5	b 2.0	2.0	0.6	1.5	1.5	1.5
28	1.5	1.5	1.5	1.0	1.5	1.5	2.0	2.0	1.5	0.6	2.0	1.5
29	1.5	1.5	1.5	0.6		1.5	1.5	2.5	2.5	0.6	2.0	1.5
30	1.0	1.5	1.5	1.0		1.5	1.5	1.5	1.5	0.6	2.0	1.5
31	1.5		1.0	1.5		1.5		2.0		1.0	2.0	
	49.7		68.2		39.7		73.8		49.2		71.5	
		514.5		262.7		117.4		60.5		51.8		62.7
MEAN	1.60	17.2	2.2	8.47	1.42	3.79	2.46	1.95	1.64	1.67	2.31	2.09
ACRE-FEET	99.	1020.	135.	521.	79.	233.	146.	120.	98.	103.	142.	124.

Remarks:

YEAR OR PERIOD MEAN 3.90
ACRE-FEET 2820.





STATION F67B-R
SIERRA MADRE WASH below Sierra Madre Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'33", LONG. 118°02'33", ON THE LEFT (EAST) BANK ABOUT 270 FEET BELOW SIERRA MADRE DAM AND ABOUT 1-1/4 MILES NORTHEAST OF SIERRA MADRE. ELEVATION OF ZERO GAGE HEIGHT 1082.69 FEET.

DRAINAGE AREA: 2.4 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RUBBLE MASONRY, DEPTH 7.5 FEET, WIDTH 24.6 FEET AT TOP AND 22.5 FEET AT BOTTOM. ARTIFICIAL CONCRETE CONTROL WITH LOW FLOW CHANNEL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING NEAR STATION; HIGH FLOWS MEASURED FROM FOOTBRIDGE AT STATION.

RECORDER: AN H.C.F. RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: THE 30-INCH DIAMETER GATE VALVE IN THE SIERRA MADRE DAM REMAINS OPEN EXCEPT IN EMERGENCY CONDITIONS. 51-INCH SLUICEWAY IS NOT GATED AND IS OPEN AT ALL TIMES.

DIVERSIONS: UNDERGROUND AND SURFACE FLOW DEVELOPED AND DIVERTED BY SIERRA MADRE WATER DEPARTMENT.

RECORDS AVAILABLE:
AT STATION F67-R - JANUARY 28, 1929 TO MAY 20, 1936.
AT STATION F67B-R - MAY 21, 1936 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 3.1 SECOND-FEET JANUARY 12.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 15.8 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW AT VARIOUS TIMES.
1929-61
MAXIMUM 620 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW SEVERAL MONTHS DURING MOST YEARS.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F67B-R

Daily discharge, in second-feet of SIERRA MADRE WASH below Sierra Madre Dam, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0	0	0.3	0.6	+	+	0	0	0	0
2			0	0	0.2	0.2	+	+	0	0	0	0
3			+	0	+	0.2	0	0	0	0	0	0
4				0		0.2	0	0	0	0	0	0
5				0		0.1	0	+	0	0	0	0
6				+		0.1	0	0	0	0	0	+
7					+	0.1	0	0	0	0	0	0
8					0.4	+	0	0	0	0	0	0
9				+	0.2		0	0	0	0	0	0
10				0.6	+		0	0	+	0	0	0
11				0.3	+		0	0	0	0	0	+
12				0.7	+		0	0	0	0	0	+
13				0.1	0		0	0	0	0	0	0
14				0.1	0		+	0	0	0	0	0
15				0.2	+		+	0	0	0	0	0
16				0.1	0		0	0	0	+	0	0
17				+	0		0	0	0	0	0	0
18				0	+		0	0	0	0	0	0
19				0	+		0	0	0	0	0	0
20				0	0		0	0	0	0	+	0
21				0	0		+	0	0	0	0	0
22				0	0		+	0	0	0	0	0
23			+	+	0		0	0	0	0	0	0
24			0.1	+	0		0	0	+	0	0	0
25			0.1	+	0		0	0	0	0	0	0
26			+	0	0		+	0	0	0	0	0
27			+	0	0	+	1.0	0	+	+	0	0
28			+	0	0	0.2	0.4	0	0	0	+	0
29			0	0.06	0.4	0	0.1	0	0	0	0	0
30		+	0	0		0	0.1	0	0	0	0	0
31	+		0	0		0		0		+	0	
	+		0.2		1.5		1.6		+		+	
		+		2.16		1.7		+		+		+
MEAN	+	+	+	0.07	0.05	0.05	0.53	+	+	+	+	+
ACRE-FEET	+	+	0.4	4.3	3.0	3.4	3.2	+	+	+	+	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.02
ACRE-FEET 14.

76D74M C6b 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

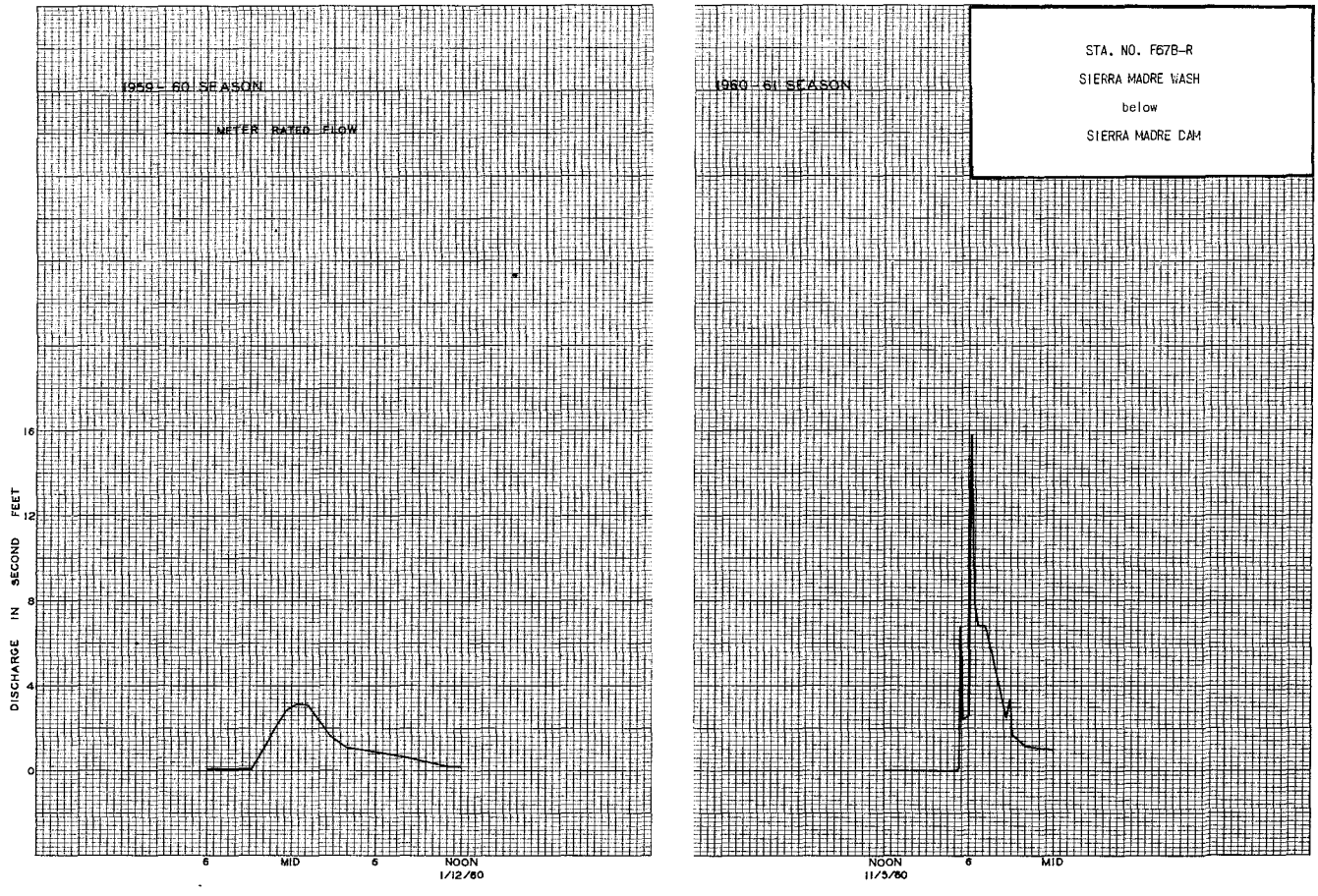
Sta. No. F67B-R

Daily discharge, in second-feet of SIERRA MADRE WASH below Sierra Madre Dam, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	+	0	+	+	+	+	+	+	+	+
2	0	0	0	0								
3	0	+	0	0								
4	0	0	0	0								
5	0	1.0	0	0								
6	0	0.2	0	0								
7	0	0	0	0								
8	0	0	0	0								
9	0	0	0	+								
10	0	0	0									
11	0	0	0									
12	0	0.8	0									
13	0	+	0									
14	0	0	0									
15	0	0	0	+								
16	0	+	0	0								
17	0	0	0	0								
18	0	0	0	0								
19	0	0	0	0								
20	0	0	0	0								
21	0	0	0	0								
22	0	0	0	0								
23	0	0	0	0								
24	0	0	0	0								
25	0	0	0	0								
26	0	0.3	0	1.5								
27	0	0.1	0	+								
28	+	0	+		+							
29	0	0	0									
30	0	0	0				+		+			
31	0		0	+		+		+		+	+	+
	+		+		+		+		+		+	
		2.4		1.5		+		+		+		+
MEAN	+	0.08	+	0.05	+	+	+	+	+	+	+	+
ACRE-FEET	+	4.8	+	3.0	+	+	+	+	+	+	+	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.01
ACRE-FEET 7.8



STATION F267B-R
SIERRA MADRE WASH at Highland Oaks Drive

LOCATION: WATER STAGE RECORDER, LAT. 34°09'18", LONG. 118°01'36", ON THE RIGHT (SOUTH) BANK OF THE CHANNEL 50 FEET ABOVE HIGHLAND OAKS AVENUE, 1⅛ MILES SOUTHEAST OF SIERRA MADRE. ELEVATION OF ZERO GAGE HEIGHT 555.19 FEET.

DRAINAGE AREA: 3.8 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE 13 FEET WIDE AND 11.5 FEET DEEP, WARPED 0.15 FOOT TOWARD STATION.
CONTROL - CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM UPSTREAM END OF CLOSED CONDUIT 50 FEET BELOW STATION.

RECORDER: AN H.C.F. RECORDER WAS IN SERVICE FROM DECEMBER 11, 1959 TO NOVEMBER 17, 1960. A STEVENS TYPE A-35 RECORDER WAS IN SERVICE FROM NOVEMBER 17, 1960 TO SEPTEMBER 30, 1961.

REGULATION: PATIALLY REGULATED BY SIERRA MADRE DAM. USUAL REGULATION AFFECTS HIGH FLOWS ONLY.

DIVERSIONS: UNDERGROUND AND SURFACE FLOWS DEVELOPED AND DIVERTED BY SIERRA MADRE WATER DEPARTMENT. FLOW ALSO DIVERTED ABOUT ONE MILE ABOVE STATION FOR SPREADING IN SIERRA MADRE SPREADING GROUNDS.

RECORDS AVAILABLE: AT STATION F267B-R FROM DECEMBER 11, 1959 TO SEPTEMBER 30, 1961. AT STATION F267-R FROM DECEMBER 30, 1938 TO APRIL 20, 1959. SEVERAL YEARS' RECORDS WERE NOT PUBLISHED DUE TO LACK OF SUFFICIENT RELIABLE DATA.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 56 SECOND-FEET JANUARY 15.
MINIMUM NO FLOW AT VARIOUS TIMES
1960-61
MAXIMUM 127 SECOND FEET NOVEMBER 5.
MINIMUM NO FLOW AT VARIOUS TIMES.
1938-61
MAXIMUM NOT DETERMINED MARCH 2, 1938.
MAXIMUM OF RECORD 706 SECOND-FEET JANUARY 6, 1959.

ACCURACY: GOOD.

OPERATION: LOCATED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT. CONSTRUCTED BY THE U.S. CORPS OF ENGINEERS

F6DT4M Gfb 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F267B-R

Daily discharge, in second-feet of SIERRA MADRE WASH at Highland Oaks Drive, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	+	2.7	0.8	+	+				+
2	0	0	0		0.2	0.1						
3	0	0	+		0.1	0.1						
4	0	0			+	0.1						
5	0	0				+						
6	0	0			+							
7	0	0			+							+
8	0	0			3.0							0.1
9	0	0	+	+	0.2							0.1
10	0	0	+	3.8	0.3		+					0.1
11	0	0	+	2.5	+		0.1					+
12	0	0	0	1.1			0.1					
13	0	0	+	0			0.1					
14	0	0	0	0.6			0.1		STOPPED FOR SUMMER	STOPPED FOR SUMMER	STOPPED FOR SUMMER	
15	0	0	+	1.6			0.1					
16	0	0	+	+			+					
17	0	0	0									
18	0	0	0									
19	0	0	0	+								
20	0	0	0	0								
21	0	0	0.5	0.0			+					
22	0	0	0	+			0.1					
23	0	0	0	+	+		+					
24	0	0	3.8	0	0.4		+					
25	0	0	0.6	0.7	+	+	+					
26	0	0	+	0.2	+	0.1	0.6					
27	0	0		+	+	0.4	5.8					
28	0	0		+	1.2	0.3	+					
29	0	0		+	4.2	+	+					
30	0	0	+	0		+	+					+
31	0		0	+		+		+				
	0		4.9		12.3		7.0		E +		E +	
		0		10.1		1.9		E+		E +		0.3
MEAN	0	0	0.16	0.33	0.42	0.06	0.23	E+	E +	E +	E +	0.01
ACRE-FEET	0	0	9.7	20.	24.	3.8	14.	E+	E +	E +	E +	0.6

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.01
ACRE-FEET 72.

74D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

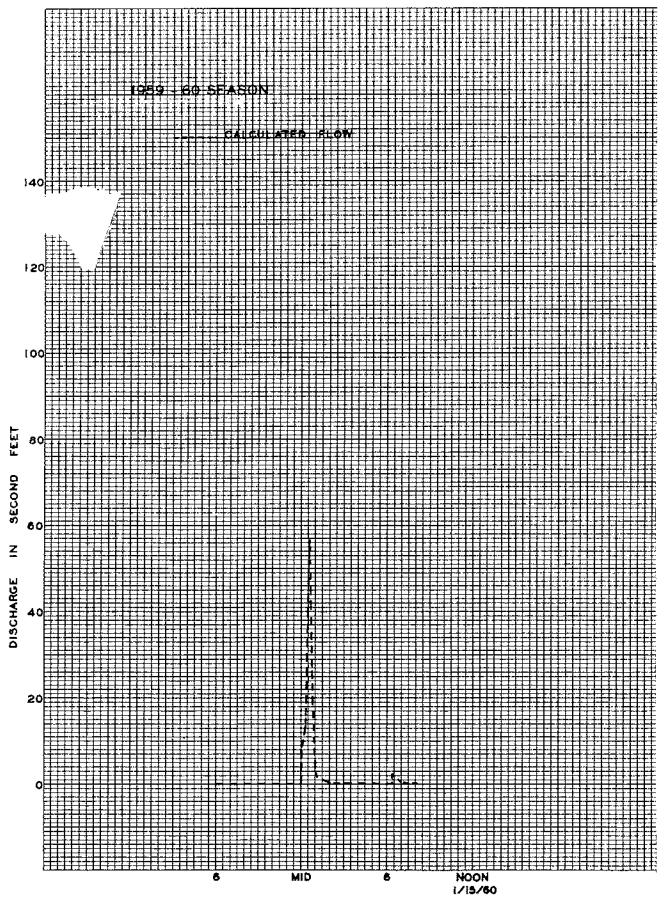
Sta. No. F267-R

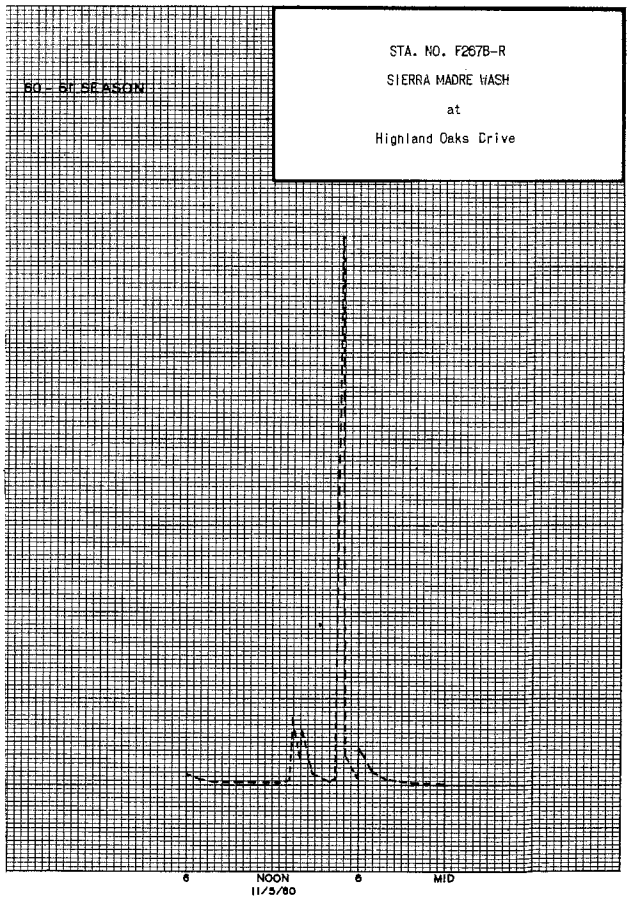
Daily discharge, in second-feet of SIERRA MADRE WASH at Highland Oaks Drive, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	0.1	+	+	0.1	+	+	+	+	+	+
2		+	0.2			+						
3		2.1	+									
4		0.2										
5		3.8					+					
6		0.6					0.1					
7		0.1					+					
8	+	+										
9	0.3											
10	0.6											
11	+	+										+
12		3.0										0.1
13		+										+
14						+						
15						1.7						
16						0						
17						+						
18						0						
19						+						
20												
21						+	+					
22						+	0.2					
23						+	+					
24				+		+						
25		+		0.2	+	0.1	+	+				
26		1.7		4.5	0.1	+	+	0.2				
27		0.1		+	+	0.1		+				
28		+			+	+						
29		+										
30		+										
31	+		+	+		+	+	+	+	+	+	+
	0.9		0.3		0.1		0.3		+			
		11.6		4.7		2.0		0.2		+		0.1
MEAN	0.29	0.39	0.01	0.15	+	0.06	0.01	0.01	+	+	+	+
ACRE-FEET	1.8	23.	0.6	9.3	0.2	4.0	0.6	0.4	+	+	+	+

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.06
ACRE-FEET 40.





STATION B324-R
STODDARD CREEK above San Antonio Creek

LOCATION: WATER-STAGE RECORDER, LAT. 34°10'28", LONG. 117°40'12", ON THE LEFT (SOUTH) BANK ABOUT 800' ABOVE MOUTH OF CANYON. ELEVATION OF ZERO GAGE HEIGHT 2477.9 FEET.

DRAINAGE AREA: 1.71 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - LARGE ROCK AND GRAVEL WITH STEEP ROCKY BANKS
CONTROL - CONCRETE BROADCRESTED WEIR.

DISCHARGE MEASUREMENTS: ALL FLOWS MEASURED BY WADING.

RECORDER: A STEVENS TYPE A-35 RECORDER WAS IN SERVICE OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSION: NONE.

RECORDS AVAILABLE: OCTOBER 20, 1958 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 14.8 SECOND-FEET APRIL 28.
MINIMUM NO FLOW VARIOUS TIMES.
1960-61
MAXIMUM 3.4 SECOND-FEET NOVEMBER 12.
MINIMUM NO FLOW AT VARIOUS TIMES.
1958-61
MAXIMUM 55 SECOND-FEET FEBRUARY 16, 1959.
MINIMUM NO FLOW AT VARIOUS TIMES EACH YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED AND CONSTRUCTED BY THE SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT. OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

7407AM Cib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. B324-R

Daily discharge, in second-feet of STODDARD CREEK above San Antonio Creek, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.1	+	0.1	0.6	0.2	0.1	0.2	+	0	0	0
2	|	0.2	|	0.1	0.5	0.2	0.1	0.2	|	0	0	0
3	|	0.2	|	0.1	0.3	0.2	0.1	0.2	|	0	0	0
4	|	0.1	|	0.1	0.3	0.1	+	0.2	|	0	0	0
5	|	+	|	0.1	0.3	0.1	+	0.2	|	0	0	0
6	|	|	|	0.1	0.3	0.1	+	0.2	|	0	0	0
7	|	|	+	0.1	0.3	0.1	0.1	0.2	|	0	0	0
8	|	|	0.1	0.1	0.5	0.1	0.1	0.2	|	0	0	0
9	|	|	0.1	0.1	0.4	0.1	0.1	0.2	|	0	0	0
10	|	|	0.1	1.0	0.4	0.1	0.1	0.1	|	0	0	0
11	|	|	0.1	0.6	0.3	0.1	0.1	0.1	|	0	0	0
12	|	|	0.1	0.7	0.3	0.1	0.1	+	|	0	0	0
13	|	|	0.1	0.3	0.2	0.1	+	0.1	+	0	0	0
14	|	+	0.1	0.3	0.2	0.1	+	0.2	0	0	0	0
15	|	0.1	0.1	0.4	0.2	0.1	0.1	0.2	0	0	0	0
16	|	0.1	0.1	0.3	0.2	0.1	0.1	0.2	0	0	0	0
17	|	0.1	0.1	0.2	0.2	0.1	+	0.1	0	0	0	0
18	|	0.1	0.1	0.2	0.2	0.1	+	0.1	0	0	0	0
19	|	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0	0	0	0
20	|	0.1	0.1	0.2	0.2	0.1	0.1	+	0	0	0	0
21	|	0.1	0.2	0.2	0.2	0.1	0.1	+	0	0	0	0
22	|	+	0.1	0.2	0.2	0.1	0.2	0.1	0	0	0	0
23	|	|	0.1	0.2	0.2	0.1	0.2	0.1	0	0	0	0
24	|	|	0.3	0.2	0.2	0.2	0.2	0.1	0	0	0	0
25	+	|	0.3	0.4	0.2	0.2	0.2	0.1	0	0	0	0
26	0.1	|	0.2	0.3	0.2	0.1	0.2	+	0	0	0	0
27	0.1	|	0.1	0.3	0.2	0.1	1.1	|	0	0	0	0
28	0.1	|	0.1	0.3	0.2	0.3	1.2	|	0	0	0	0
29	+	|	0.1	0.3	0.3	0.2	0.2	|	0	0	0	0
30	0.1	+	0.1	0.3		0.2	0.2	|	0	0	0	0
31	0.1		0.1	0.3		0.2		+		0	0	
	0.5	1.3	3.0	8.3	8.0	4.1	5.1	3.4	+	0	0	0
MEAN	0.02	0.04	0.10	0.27	0.28	0.13	0.17	0.11	+	0	0	0
ACRE-FEET	1.0	2.6	6.0	16.	16.	8.1	10.	6.7	+	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.01
ACRE-FEET 66.

760744M C6b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

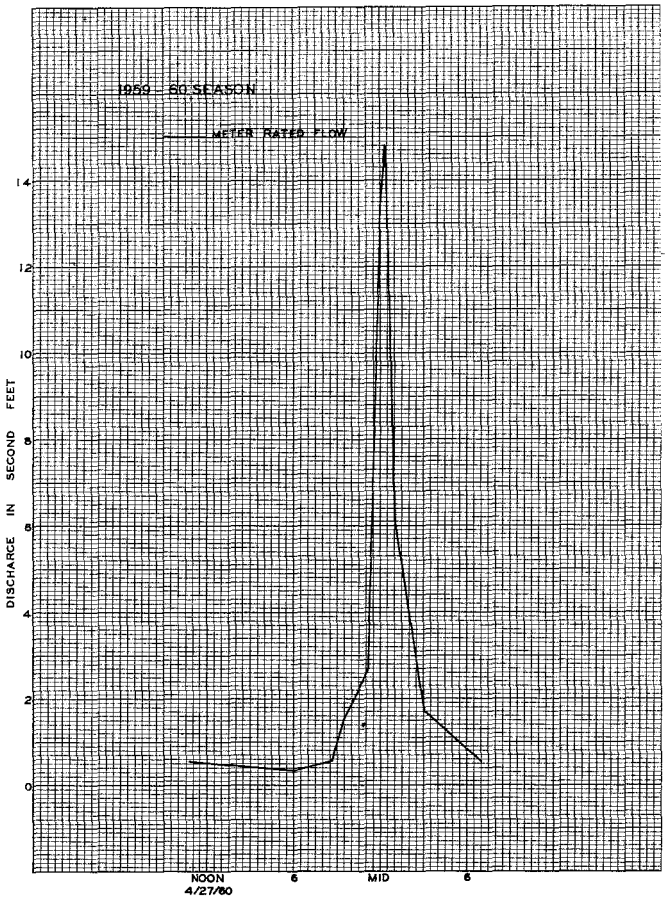
Sta. No. B324-R

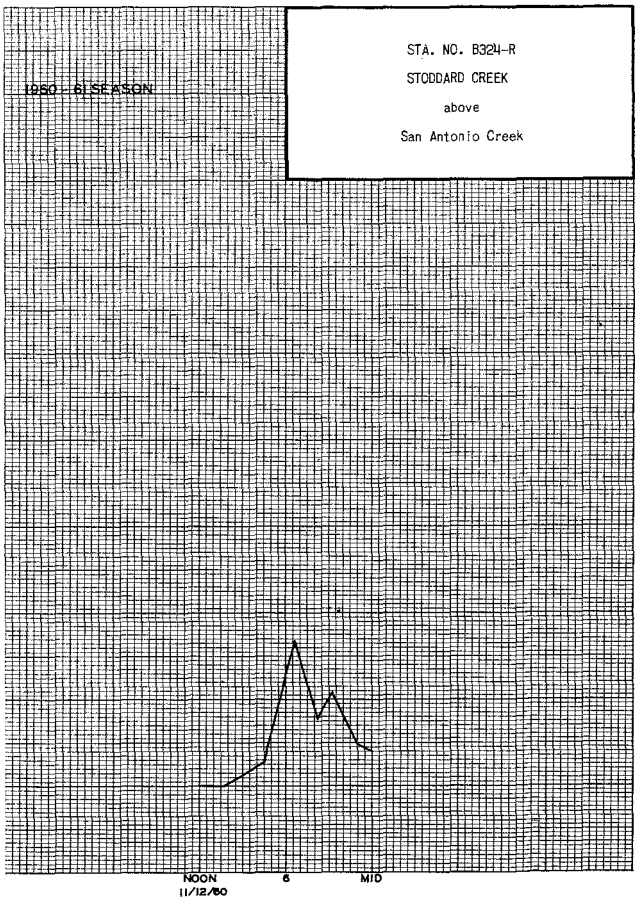
Daily discharge, in second-feet of STODDARD CREEK above San Antonio Creek, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0.04	0.08	0.1	0.04	0.04	0	0	0	0	0
2	0	0	0.08	0.08	0.08	0.04	+	0	0	0	0	0
3	0	0.4	0.04	0.08	0.08	0.08	+	+	0	0	0	0
4	0	0.1	0.04	0.08	0.08	0.2	+	0.08	0	0	0	0
5	0	0.1	0.04	0.04	0.08	0.2	0.08	+	0	0	0	0
6	0	0.8	0.1	0.04	0.08	0.1	0.1	0.04	0	0	0	0
7	0	0.2	0.2	+	0.08	0.08	0.1	+	0	0	0	0
8	0	0.1	0.08	|	0.08	0.04	0.04	+	0	0	0	0
9	0	+	0.08	|	0.08	0.04	0.04	0	0	0	0	0
10	+	+	0.08	|	0.08	0.04	0.1	0	0	0	0	0
11	0	+	0.04	|	0.08	0.08	+	0	0	0	0	0
12	0	0.6	0.04	|	0.08	0.08	|	0	0	0	0	0
13	0	0.3	0.04	|	0.08	0.04	|	0	0	0	0	0
14	0	0.2	0.04	|	0.08	0.04	|	0	0	0	0	0
15	0	0.2	0.04	|	0.08	0.2	|	0	0	0	0	0
16	0	0.1	0.04	|	0.08	0.1	|	0	0	0	0	0
17	0	0.1	0.04	|	0.08	0.1	|	0	0	0	0	0
18	0	0.1	0.04	|	0.08	0.08	|	0	0	0	0	0
19	0	0.1	0.04	|	0.08	0.04	|	0	0	0	0	0
20	0	0.1	0.04	|	0.08	0.04	|	0	0	0	0	0
21	0	0.1	0.04	|	0.08	0.08	+	0	0	0	0	0
22	0	+	0.04	|	0.08	0.04	0.2	0	0	0	0	0
23	0	|	0.04	|	0.08	0.08	0.04	0	0	0	0	0
24	0	|	0.04	+	0.04	0.1	+	0	0	0	0	0
25	0	+	0.04	0.04	0.04	0.1	|	0	0	0	0	0
26	0	0.3	0.04	1.0	0.08	0.1	|	0	0	0	0	0
27	0	0.3	0.04	0.3	0.08	0.1	+	0	0	0	0	0
28	0	0.2	0.04	0.2	0.08	0.2	0	0	0	0	0	0
29	0	0.1	0.04	0.2	|	0.08	0	0	0	0	0	0
30	0	+	0.04	0.1	|	0.08	0	0	0	0	0	0
31	0	|	0.04	0.1	|	0.08	|	0	|	0	|	|
	+		1.62		2.18		0.74		0		0	
		4.5		2.34		2.70		0.12		0		0
MEAN	+	0.15	0.05	0.08	0.08	0.08	0.02	+	0	0	0	0
ACRE-FEET	+	8.9	3.2	4.6	4.3	5.4	1.5	0.24	0	0	0	0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.04
ACRE-FEET 28.





STATION F43-R
SYCAMORE CANYON CHANNEL above Solway Street

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'24", LONG. 118°13'17", ON THE RIGHT (NORTH) SIDE OF CONCRETE DRAIN, APPROXIMATELY 80-FEET ABOVE SOLWAY STREET AND ABOUT THREE MILES NORTHEAST OF GLENDALE. ELEVATION OF GAGE ABOUT 700 FEET.

DRAINAGE AREA: 2.7 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE, 8 FEET WIDE AND 8 FEET DEEP. INVERT IS 0.1 FOOT BELOW BOTTOM OF VERTICAL SIDE WALLS. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM FOOTBRIDGE ABOUT 80 FEET BELOW STATION.

RECORDER: A STEVENS TYPE L RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATIONS: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: FROM JANUARY 30, 1928 TO APRIL 6, 1932 AND FROM OCTOBER 1, 1935 TO SEPTEMBER 30, 1940, NOT PUBLISHED FROM OCTOBER 1, 1936 TO SEPTEMBER 30, 1938, BUT RECORDS ARE AVAILABLE AT OFFICE OF THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, HYDRAULIC DIVISION. RECORDS PUBLISHED FROM OCTOBER 1, 1938 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 30 SECOND-FEET JANUARY 11.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 177 SECOND-FEET NOVEMBER 6.
MINIMUM NO FLOW AT VARIOUS TIMES.
1928-61
MAXIMUM NOT DETERMINED MARCH 2, 1938.
MAXIMUM DISCHARGE OF RECORD 568 SECOND-FEET JANUARY 16, 1952.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

76D74M Gfb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F43-R

Daily discharge, in second-feet of SYCAMORE CANYON CHANNEL above Solway Street, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	+	2.8	0.2	+	+				
2				+	+	+						
3				+	+							
4				0	0							
5				+	0							
6				+	+		+					
7				0	+		0					
8				+	1.2		+					
9			+	0.1	+							
10			0	3.5	0.2							
11		+	+	2.3	+				STOPPED FOR SUMMER	STOPPED FOR SUMMER	STOPPED FOR SUMMER	
12		0		1.5								
13		+		+								
14				0.4								
15				0.3								
16				+								+
17				+								
18				0								
19			+	0								
20			0.1	0								
21			0.1	0								
22	+	+	+	+								
23	0.1	0	0	+								
24	0.1	+	2.8	+								
25	0.1		0.1	0.5			+					
26	+		+	0		+	0.8	+				
27			0	0	+	0.3	2.1					
28			0	0	0.4	0.2	+					
29		+	+	+	6.4	+	+					
30		0	+	+		0	+					+
31	+		+	+		+						
	0.3		3.1		11.0		2.9		E +		E +	
		+		8.6		0.7		E +		E +		E +
MEAN	0.01	+	0.10	0.28	0.38	0.02	.10	E +	E +	E +	E +	E +
ACRE-FEET	0.6	+	6.1	17.	22.	1.4	5.8	E +	E +	E +	E +	E +

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.07
ACRE-FEET 52.9

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F43-R

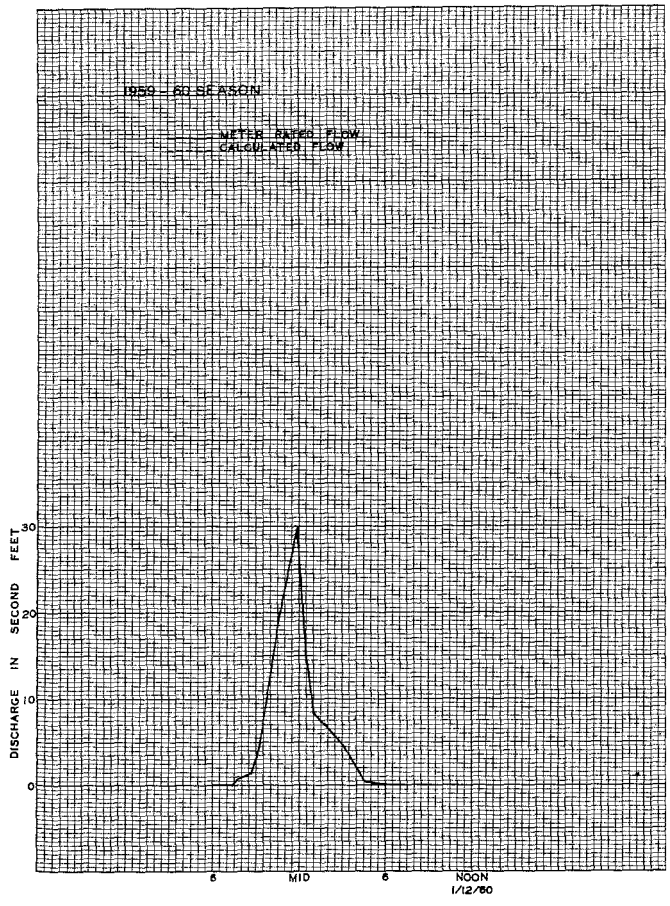
Daily discharge, in second-feet of SYCAMORE CANYON CHANNEL above Solway Street for the year ending September 30, 1961

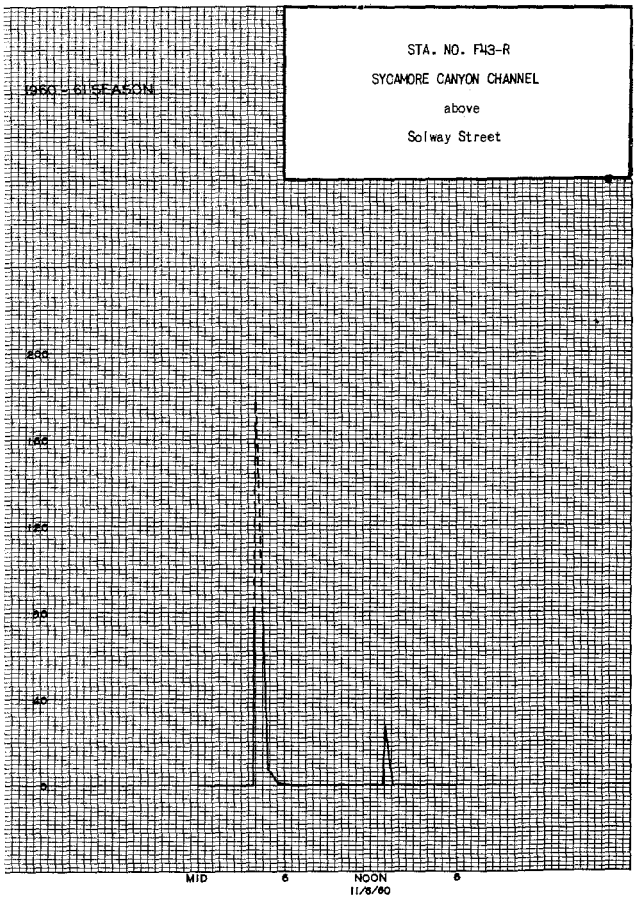
Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	+	+	+	0	+	+	+				
2		+	0.1		+							
3		1.2	+									
4		+										
5		6.1										
6		a 4.4										
7		+					+					
8	+						0					
9	a 0.1						+					
10	+											
11		+							STOPPED FOR SUMMER	STOPPED FOR SUMMER	STOPPED FOR SUMMER	STOPPED FOR SUMMER
12		1.3										
13		+				+						
14												
15						1.2						
16						+						
17												
18												
19												
20												
21							+					
22							0.2					
23							+					
24				+								
25		+		0.1								
26		2.0		4.7								
27		+		0.1								
28		+		+	+							
29		+		+								
30		+		0			+					
31	+		+	+		+		+				

	0.1	15.0	0.1	4.9	+	1.2	0.2	+	E +	E +	E +	E +
MEAN	+	0.50	+	0.16	+	0.04	0.01	+	E +	E +	E +	E +
ACRE-FEET	0.2	30.	0.2	9.7	+	2.4	0.4	+	E +	E +	E +	E +

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.06
ACRE-FEET 43.





STATION F44B-R
SYCAMORE CANYON CHANNEL at Adams Square

LOCATION: WATER-STAGE RECORDER. LAT. 34°08'02". LONG. 118°14'30". ON THE RIGHT (NORTH) SIDE OF THE DRAIN ABOUT 130 FEET DOWNSTREAM FROM THE WEST CURB OF ADAMS STREET. ABANDONED STATION F44-R WAS 100 FEET UPSTREAM FROM PRESENT STATION.

DRAINAGE AREA: 1.77 SQUARE MILES. (EXCLUDES AREA ABOVE SYCAMORE-SCHOLL DIVERSION CHANNEL. SEE "REMARKS".)

CHANNEL AND CONTROL: CHANNEL - CLOSED RECTANGULAR CONCRETE DRAIN, 9 FEET WIDE AND 10 FEET DEEP. INVERT IS 0.1 FOOT BELOW BOTTOM OF VERTICAL SIDE WALLS. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING. HIGH FLOWS MEASURED FROM FOOTBRIDGE AT STATION.

RECORDER: AN H.C.F. CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATIONS: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: DECEMBER 15, 1927 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 147 SECOND-FEET JANUARY 14.
MINIMUM PLUS FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 413 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW AT VARIOUS TIMES.
1927-61
MAXIMUM 2700 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

REMARKS: WHEN SCHOLL CHANNEL IS FULL (250± CFS), EXCESS WILL FLOW DOWN CHEVY CHASE DRIVE INSTEAD OF THROUGH SYCAMORE-SCHOLL DIVERSION. THEREFORE, DRAINAGE AREA NOT DETERMINED AT THESE TIMES. FORMERLY 6.2 SQUARE MILES FROM 1927 TO DECEMBER 8, 1959.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

240714M C1b 1-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F44B-R

Daily discharge, in second-feet of SYCAMORE CANYON CHANNEL at Adams Square for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.2	0.1	+	7.0	1.5	0.1	+	+			
2	0.1	0.1	0.1		+	0.5	+		+			
3	0.1	0.1	0.1			0.2						
4	0.1	0.2	0.2			0.1						
5	0.1	0.2	0.2			+		+				
6	0.1	+	0.2					0.1				
7	0.1	0.1	0.2		+		+	+				
8	0.1	+	0.4	+	2.9		0.2					
9	0.1	+	0.4	0.1	+		0.1					
10	0.1	+	0.8	11.6	0.7		0.1					
11	0.1	+	0.4	12.4	+		0.2					
12	0.1	0.1	0.4	2.6			0.4					
13	0.1	0.2	0.2	+		+	0.5					
14	0.1	0.2	0.1	3.8		0.1	+					
15	+	0.4	0.1	2.4		+						
16	0.4	0.4	+	+				+				+
17	0.4	0.4	0.2	+				0.1				0.1
18	0.4	0.4	0.2	0.1				0.1				
19	0.2	0.4	0.2	+				0.1				
20	0.4	0.4	0.4	0.1				0.1				
21	0.1	0.2	0.5	0.1				0.1				
22	0.5	0.4	0.2	+				0.1				
23	0.4	0.4	0.2	+				0.1				
24	0.4	0.4	12.3	+				0.1				
25	0.4	0.2	0.4	1.8			+	0.1				
26	0.2	0.2	0.1	+	+	+	3.9	0.1				
27	0.2	0.2	+		0.1	0.5	9.2	0.1				
28	0.2	0.2			2.0	0.7	+	0.1				
29	0.2	0.2			4.2	+	+	0.1				
30	0.2	0.2				+	+	0.1				+
31	0.2		+	+		+	+	+				
	6.1	6.4	18.6	35.0	16.9	3.6	14.7	1.4	E +	E +	E +	0.3
MEAN	0.20	0.21	0.60	1.13	.58	.12	0.49	0.05	E +	E +	E +	E +
ACRE-FEET	12.	13.	37.	69.	34.	7.1	29.	2.8	E +	E +	E +	E 0.6

STOPPED FOR SUMMER

Remarks: + = 0.02 CFS OR LESS

YEAR OR PERIOD MEAN 0.28
ACRE-FEET 204.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

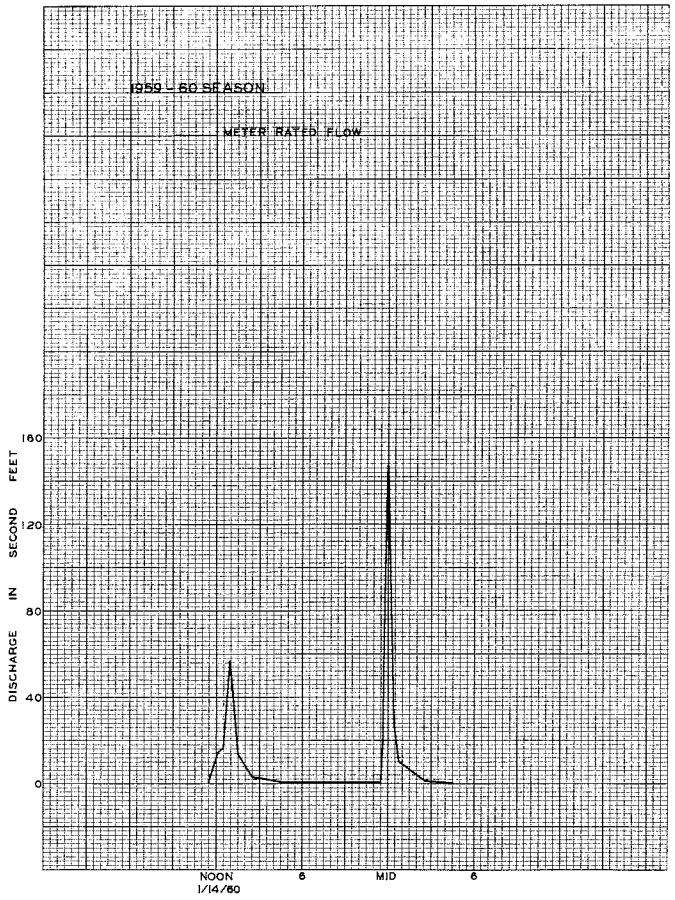
Sta. No. F44B-R

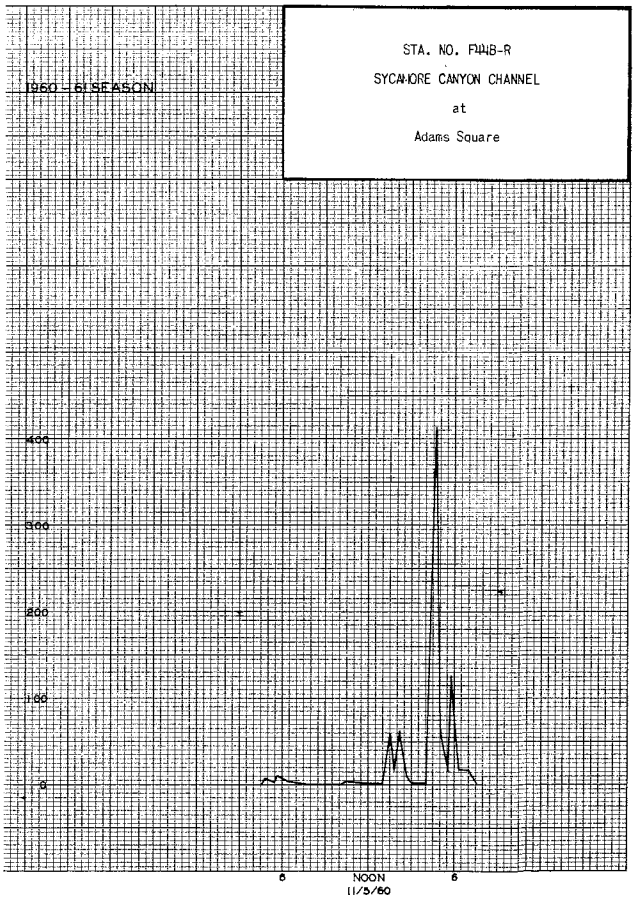
Daily discharge, in second-feet of SYCAMORE CANYON CHANNEL at Adams Square, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	+	0.1	0.1	0.1	+	0.2	+	0.1				
2	—	0.1	0.2	0.1	—	0.1	+	0.1				
3	—	5.0	+	0.1	—	0.1	+	0.1				
4	+	+	—	0.2	+	+	0.2	0.1				
5	0.1	15.4	—	0.2	0	0.1	0.4	0.1				
6	0.1	9.7	—	0.1	+	0.1	0.7	0.1				
7	0.1	0.1	+	+	+	+	0.1	0.1				
8	0.1	0.1	0.1	—	0.1	+	+	0.1				
9	1.5	0.1	+	—	0.1	+	+	f 0.1				
10	0.1	0.1	+	—	0.1	0	0.1	f 0.1				
11	—	0.1	+	—	+	0.2	0.1	0.1	STOPPED FOR SUMMER	STOPPED FOR SUMMER	STOPPED FOR SUMMER	STOPPED FOR SUMMER
12	+	5.7	0.1	—	+	0.2	0.3	0.1				
13	—	0.1	+	+	+	0.2	0.3	+				
14	—	0.1	0.1	0.4	0.1	0.2	0.2	0.1				
15	—	0.1	0.1	0.1	0.1	7.6	0.1	0.1				
16	+	0.1	+	0.1	0.1	0.2	0.1	0.1				
17	0.1	0.1	—	0.1	0.1	0.2	0.1	0.1				
18	0.1	0.1	—	0.2	0.1	0.1	0.1	0.1				
19	0.1	+	+	0.1	+	+	0.1	0.1				
20	0.1	+	0.1	0.2	0.1	0.1	0.1	0.1				
21	0.1	0.1	+	0.1	+	0.1	0.1	0.1				
22	+	0.1	+	0.1	+	+	a 0.2	0.1				
23	0.1	0.1	+	0.1	+	+	a 0.1	0.1				
24	0.1	0.2	0.1	0.1	0.1	0.3	0.1	0.1				
25	0.1	0.1	0.1	0.9	0.1	+	+	0.1				
26	0.1	8.0	0.1	16.5	0.1	+	—	0.1				
27	0.1	0.1	0.1	0.1	0.1	+	—	0.1				
28	0.1	0.1	0.2	+	0.1	0.1	—	0.1				
29	0.1	0.2	0.4	0		+	+	0.1				
30	0.1	0.1	0.4	+		+	0.1	0.1				
31	0.1		0.1	+		+		0.1				
	3.4	46.2	2.3	19.9	1.4	10.5	5.6	3.0	E +	E +	E +	E +
MEAN	0.11	1.54	0.07	0.64	0.05	0.34	0.19	0.10	E +	E +	E +	E +
ACRE-FEET	6.7	91.	4.6	39.	28.	21.	11.	60.	E +	E +	E +	E +

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.25
ACRE-FEET 182.





STATION F276-R
THOMPSON CREEK SPREADING GROUNDS INTAKE at Thompson Creek Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°08'22", LONG. 117°42'37", ON THE RIGHT (WEST) SIDE AND AT THE DOWNSTREAM END OF THE 3-FOOT X 3-FOOT DIVERSION OUTLET THROUGH THOMPSON CREEK DAM. ELEVATION OF ZERO GAGE HEIGHT, 1624.45 FEET.

DRAINAGE AREA: 3.7 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - 3-FOOT X 3-FOOT CONCRETE-COVERED OUTLET WITH A TRANSITION INTO A 4-FOOT DIAMETER SEMI-CIRCULAR FLUME.
CONTROL - TRANSITION INTO SEMI-CIRCULAR FLUME.

DISCHARGE MEASUREMENTS: ALL FLOWS MEASURED BY WADING.

RECORDER: A STEVENS TYPE L RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION AND/OR DIVERSIONS: INFLOW TO THOMPSON CREEK DAM FROM COBAL AND PALMER CANYONS CAN BE DIRECTED THROUGH A 3-FOOT X 3-FOOT OUTLET TUNNEL TO THOMPSON CREEK SPREADING GROUNDS. FLOW THROUGH THE TUNNEL CAN BE CONTROLLED BY TWO SLIDE GATES SO THAT ANY FLOW IN EXCESS OF THE CAPACITY OF GATE OPENING IS PASSED OVER A SPILLWAY BACK TO THE RESERVOIR.

RECORDS AVAILABLE: JANUARY 14, 1941 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
NO FLOW ENTIRE SEASON.
1960-61
NO FLOW ENTIRE SEASON.
1940-61
MAXIMUM 21 SECOND-FEET FEBRUARY 24, 1943.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: GOOD.

REMARKS: PRIOR TO AUGUST 1953, THE WATER-STAGE RECORDER WAS LOCATED ON THE LEFT (EAST) SIDE OF THE DOWNSTREAM END OF THE DIVERSION OUTLET.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

STATION F32B-R
THOMPSON CREEK below Thompson Creek Dam

LOCATION: WATER-STAGE RECORDER, LAT. 34°08'22", LONG. 117°42'32", ON THE RIGHT (NORTH) BANK ABOUT 300 FEET BELOW THOMPSON CREEK DAM TUNNEL OUTLET AND ABOUT 2.5 MILES NORTH OF CLAREMONT. ELEVATION OF ZERO GAGE HEIGHT, 1579.94 FEET.

DRAINAGE AREA: 3.7 SQUARE MILES.

CHANNEL AND CONTROL: SAN DIMAS TYPE FLUME.

DISCHARGE MEASUREMENTS: ALL FLOWS MEASURED BY WADING.

RECORDER: A HORIZONTAL RATIONAL RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION AND/OR DIVERSION: INFLOW TO THOMPSON CREEK DAM FROM COBAL AND PALMER CANYONS CAN BE DIRECTED THROUGH A 3-FOOT X 3-FOOT OUTLET TUNNEL TO THOMPSON CREEK SPREADING GROUNDS. FLOW THROUGH THE DIVERSION TUNNEL CAN BE CONTROLLED BY TWO SLIDE GATES SO THAT ANY FLOW IN EXCESS OF THE CAPACITY OF GATE OPENINGS IS PASSED OVER A SPILLWAY BACK TO THE RESERVOIR. FLOW THROUGH THE 24-INCH OUTLET VALVE PASSES THE STATION. DISCHARGES OVER THE SPILLWAY OF THE DAM WOULD NOT BE RECORDED AT THIS LOCATION.

RECORDS AVAILABLE: RECORDER RECORDS DECEMBER 21, 1943 TO SEPTEMBER 30, 1961 FOR MEASUREMENTS PRIOR TO DECEMBER 21, 1943, SEE STATION F32-S. FROM MARCH 1928, SEE RECORDS BASED ON DAM OUTFLOW.

EXTREMES OF DISCHARGE:
1959-60
NO FLOW ENTIRE SEASON.
1960-61
NO FLOW ENTIRE SEASON.
1944-61
MAXIMUM 8.6 SECOND-FEET APRIL 5, 1958.
MINIMUM NO FLOW.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT FOR MEASURING OUTFLOW FROM THOMPSON CREEK DAM.

STATION F54B-R
TOPANGA CREEK above Mouth of Canyon

LOCATION: WATER-STAGE RECORDER. LAT. 34°03'52", LONG. 118°25'12", ON THE RIGHT (WEST) DOWNSTREAM ABUTMENT OF THE CONCRETE BRIDGE TWO MILES NORTH OF TOPANGA BEACH AND ABOUT SIX MILES NORTHWEST OF SANTA MONICA. ELEVATION OF ZERO GAGE HEIGHT, 265.60 FEET.

DRAINAGE AREA: 18 SQUARE MILES.

CHANNEL AND CONTROL: CHANNEL - ROCK AND GRAVEL. NO ARTIFICIAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING, HIGH FLOWS MEASURED FROM CABLE CAR ABOVE STATION.

RECORDER: A STEVENS A-35 CONTINUOUS RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: NONE.

DIVERSIONS: NONE.

RECORDS AVAILABLE: JANUARY 1, 1930 TO SEPTEMBER 30, 1961.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 539. SECOND-FEET APRIL 27.
MINIMUM 0.01 SECOND-FOOT VARIOUS TIMES.
1960-61
MAXIMUM 27.9 SECOND-FEET JANUARY 26.
MINIMUM PLUS FLOW AT VARIOUS TIMES.
1930-61
MAXIMUM 9300 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE UNITED STATES GEOLOGICAL SURVEY, WATER RESOURCES BRANCH.

7M374M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F54B-R

Daily discharge, in second-feet of TOPANGA CREEK above Mouth of Canyon, for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.02	0.04	0.02	0.07	15	1.6	0.05	0.1	0.05	0.01	0.01	0.02
2	0.02	0.04	0.02	0.07	5.2	0.4	0.04	0.1	0.04	0.01	0.01	0.01
3	0.02	0.04	0.02	0.1	1.0	0.2	0.05	0.1	0.07	0.01	0.01	0.01
4	0.02	0.04	0.02	0.1	0.6	0.2	0.05	0.1	0.07	0.02	0.01	0.01
5	0.02	0.04	0.02	0.1	0.3	0.2	0.04	0.1	0.07	0.02	0.01	0.01
6	0.02	0.04	0.02	0.1	f 0.2	0.2	0.05	0.1	0.05	0.02	0.01	0.01
7	0.02	0.02	0.02	0.1	b 0.2	0.2	0.05	0.1	0.04	0.02	0.01	0.01
8	0.02	0.02	0.02	0.1	0.8	0.2	0.07	0.07	0.04	0.02	0.01	0.01
9	0.02	0.02	0.02	0.2	0.6	0.1	0.07	0.1	0.02	0.02	0.01	0.01
10	0.02	0.02	0.04	21	0.6	0.1	0.07	0.07	0.02	0.02	0.01	0.01
11	0.02	0.02	0.04	41	f 0.3	0.1	0.1	0.07	0.02	0.02	0.01	0.01
12	0.02	0.02	0.04	9.3	f 0.2	0.1	0.07	0.07	0.02	0.02	0.01	0.02
13	0.02	0.02	0.04	0.4	0.2	0.1	0.07	0.1	0.02	0.02	0.01	0.01
14	0.02	0.02	0.04	3.8	0.2	0.1	0.07	0.1	0.02	0.02	0.01	0.01
15	0.02	0.02	0.04	1.6	0.2	0.1	0.05	0.1	0.04	0.02	0.01	0.01
16	0.02	0.02	0.04	0.4	0.1	0.1	0.04	0.07	0.04	0.02	0.01	0.01
17	0.02	0.02	0.04	0.2	0.1	0.07	0.05	0.07	b 0.04	0.02	0.01	0.01
18	0.02	0.02	0.04	0.2	0.1	0.07	0.04	0.07	0.04	0.02	0.01	0.01
19	0.02	0.02	0.04	0.2	0.1	0.07	0.05	0.07	0.04	0.02	0.01	0.01
20	0.02	0.04	0.04	0.2	0.2	0.07	0.6	0.07	0.03	0.01	0.01	0.01
21	0.02	0.04	0.05	0.2	0.2	0.07	0.1	0.07	0.03	0.01	0.01	0.01
22	0.02	0.02	0.04	0.2	0.2	0.07	0.04	0.07	b 0.03	0.01	0.01	0.01
23	0.02	0.02	0.04	0.2	0.2	0.07	0.04	0.07	0.02	0.01	0.01	0.01
24	0.02	0.02	1.0	0.1	0.1	0.07	0.04	0.07	0.02	0.01	0.01	0.01
25	0.02	0.02	0.5	0.6	0.1	0.07	0.04	0.07	0.02	0.01	0.01	0.01
26	0.02	0.02	0.1	0.5	0.1	0.07	7.6	0.07	0.02	0.01	0.01	0.01
27	0.02	0.02	0.1	0.2	0.1	0.1	76	0.05	0.02	0.01	0.02	0.01
28	0.02	0.02	0.07	0.1	0.3	0.3	1.9	0.05	0.02	0.01	0.02	0.01
29	0.04	0.02	0.07	0.1	15	0.1	0.5	0.05	0.02	0.01	0.02	0.01
30	0.04	0.02	0.07	0.1		0.1	0.2	0.05	0.02	0.01	0.02	0.01
31	0.04		0.07	0.1		0.1		0.05		0.01	0.02	
	0.68		2.73		29.0		8.814		1.00		0.36	
		0.76		8.164		5.40		2.40		0.47		0.32
MEAN	0.02	0.03	0.09	2.63	1.00	0.17	2.9	0.08	0.03	0.02	0.01	0.01
ACRE-FEET	1.3	1.5	5.4	162.	58.	11.	175.	4.8	2.0	0.93	0.71	0.63

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.58
ACRE-FEET 422.

74D74M Glb 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

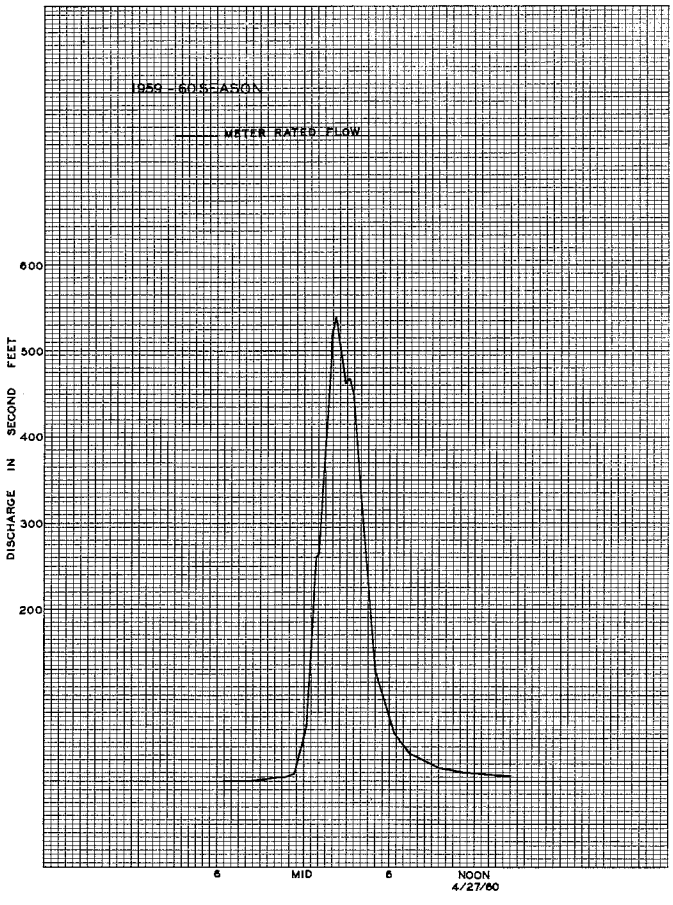
Sta. No. F54B-R

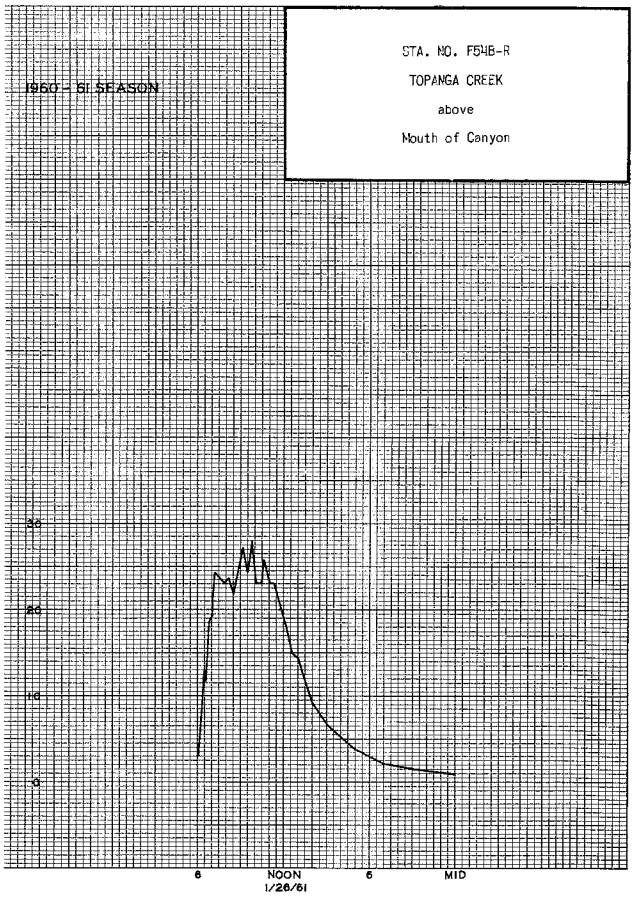
Daily discharge, in second-feet of TOPANGA CREEK above Mouth of Canyon, for the year ending September 30, 1961

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.01	0.02	0.1	0.04	0.07	0.05	0.04	0.01	0.01	0.01	0.01	0.01
2	0.02	0.02	0.2	0.04	0.07	0.05	0.04	0.02	0.01	0.02	0.01	0.01
3	0.02	0.01	0.1	0.04	0.07	0.05	0.04	0.02	0.01	0.02	0.01	0.01
4	0.01	0.01	0.1	0.04	0.07	0.05	0.02	0.02	0.01	0.02	0.01	0.01
5	0.01	2.3	0.1	0.04	0.07	0.05	0.02	0.02	0.01	0.02	0.01	+
6	0.01	2.0	0.1	0.04	0.07	0.05	0.04	0.02	0.01	0.01	0.01	0.01
7	0.01	0.2	0.07	0.04	0.07	0.05	0.04	0.02	0.01	0.01	0.01	0.01
8	0.01	0.1	0.07	0.04	0.07	0.05	0.04	0.01	0.01	0.01	0.01	0.01
9	0.01	0.07	0.07	0.04	0.07	0.04	0.04	0.01	0.01	0.01	0.01	0.01
10	0.01	0.05	0.07	0.04	0.1	0.04	0.02	0.01	0.01	0.01	0.01	+
11	0.01	0.04	0.07	0.04	0.1	0.05	0.02	0.01	0.01	0.01	0.07	0.01
12	0.01	1.1	0.07	0.04	0.1	0.05	0.02	0.01	0.02	0.01	0.02	+
13	0.01	0.5	0.07	0.04	0.1	0.05	0.01	0.01	0.02	0.01	0.02	0.01
14	0.01	0.2	0.07	0.04	0.2	0.05	0.01	0.01	0.02	0.01	0.01	0.01
15	+	0.1	0.07	0.04	0.2	0.3	0.01	0.01	0.02	0.01	0.01	0.01
16		0.07	0.07	0.04	0.1	0.1	0.01	0.01	0.02	0.01	0.01	0.02
17		0.07	0.1	0.04	0.1	0.07	0.01	0.01	0.02	0.01	0.01	0.02
18	+	0.07	0.1	0.04	0.07	0.05	0.02	0.02	0.02	0.01	0.01	0.02
19	0.01	0.07	0.05	0.04	0.05	0.05	0.02	0.01	0.02	0.01	0.01	0.02
20	0.01	0.05	0.04	0.04	0.05	0.05	0.02	0.01	0.02	0.01	0.01	0.02
21	+	0.04	0.04	0.04	0.05	0.05	0.02	0.01	0.02	0.01	0.01	0.02
22	+	0.04	0.04	0.04	0.05	0.05	0.2	0.01	0.02	0.01	0.01	0.02
23	0.01	0.04	0.04	0.04	0.05	0.05	0.02	0.01	0.02	0.01	0.01	0.02
24	0.01	0.04	0.04	0.05	0.04	0.07	0.01	0.01	0.02	0.01	0.01	0.02
25	0.01	0.05	0.04	0.3	0.05	0.07	0.01	0.01	0.02	0.01	0.01	0.02
26	0.01	2.0	0.04	8.1	0.05	0.05	0.02	0.01	0.02	0.01	0.01	0.02
27	0.02	0.5	0.04	0.4	0.05	0.05	0.01	0.01	0.02	0.01	0.01	0.02
28	0.02	0.2	0.04	0.1	0.05	0.05	0.01	0.01	0.02	0.01	0.01	0.02
29	0.02	0.1	0.04	0.07		0.04	0.01	0.01	0.01	0.01	0.01	0.02
30	0.02	0.1	0.04	0.07		0.04	0.01	0.01	0.01	0.01	0.01	0.02
31	0.01		0.04	0.07		0.04		0.01		0.01	0.01	
	0.31		2.13		2.19		0.81		0.47		0.39	
		10.16		10.08		1.86		0.38		0.35		0.42
MEAN	0.01	0.34	0.07	0.33	0.08	0.06	0.03	0.01	0.02	0.01	0.01	0.14
ACRE-FEET	0.61	20.	4.2	20.	4.3	3.7	1.6	0.75	0.93	0.69	0.77	0.83

Remarks: + = 0.04 CFS OR LESS

YEAR OR PERIOD MEAN 0.08
ACRE-FEET 58.4





STATION F252-R
VERDUGO CHANNEL at Estelle Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°09'23", LONG. 118°16'23", ON THE RIGHT (NORTH) SIDE OF CHANNEL AT ESTELLE AVENUE, 800 FEET EAST OF SAN FERNANDO ROAD AND ABOUT TWO MILES NORTHWEST OF GLENDALE. ELEVATION OF ZERO GAGE HEIGHT, 464.78 FEET ABOVE MEAN SEA LEVEL.

DRAINAGE AREA: 26.8 SQUARE MILES. (AFTER COMPLETION OF SYCAMORE-SCHOLL DIVERSION IN DECEMBER 1959, FORMERLY 22.4 SQUARE MILES)

CHANNEL AND CONTROL: CHANNEL - RECTANGULAR CONCRETE, 86 FEET WIDE BY 11 FEET DEEP TO BOTTOM OF INVERT. INVERT IS ONE FOOT BELOW BOTTOM OF VERTICAL SIDE WALLS. CHANNEL FORMS CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM HIGHWAY BRIDGE UPSTREAM 850 FEET.

RECORDER: A STEVENS TYPE A-35B RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO SEPTEMBER 30, 1961.

REGULATION: FLOW PARTIALLY REGULATED BY VERDUGO AND OTHER DEBRIS BASINS.

DIVERSIONS: SEVERAL DIVERSIONS FOR DOMESTIC WATER SUPPLY AND IRRIGATION.

RECORDS AVAILABLE: DECEMBER 2, 1935 TO SEPTEMBER 30, 1961. FOR EARLIER RECORDS SEE STATION F9-R, VERDUGO AT GLEN OAKS BOULEVARD, AND F244-R, VERDUGO AT DON CARLOS STREET.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 533 SECOND-FEET JANUARY 11.
MINIMUM NO FLOW AT VARIOUS TIMES.
1960-61
MAXIMUM 676 SECOND-FEET NOVEMBER 5.
MINIMUM NO FLOW AT VARIOUS TIMES.
1935-61
MAXIMUM 4400 SECOND-FEET ESTIMATED MARCH 2, 1938.
MINIMUM NO FLOW AT VARIOUS TIMES.

ACCURACY: FAIR.

OPERATION: LOCATED AND CONSTRUCTED BY CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY, AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT IN COOPERATION WITH THE CORPS OF ENGINEERS, DEPARTMENT OF THE ARMY.

74D14M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F252-R

Daily discharge, in second-feet of VERDUGO CHANNEL at Estelle Street, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	+	+	0	54	24	+	01	+	01	01	01
2	+		0	0	09	01	01	+	+	01	01	01
3	+		0	0	01	01	+	01	01	01	01	01
4	0.4		+	+	01	+	01	01	01	01	01	01
5	+				01	01	01	01	01	01	01	01
6					01	+	01	01	01	01	01	01
7			+		01	01	+	01	01	01	01	01
8			01	+	30	01	+	01	01	01	01	01
9			+	0.4	01	12	01	01	01	01	01	01
10		+	01	56	20	10	+	+	01	01	01	01
11		0	+	44	+	05	01		01	01	01	01
12	+	+	+	36	02	01	+		01	02	01	01
13	01		+	+	05	+		+	01	18	01	01
14	+		0	56	05	01		01	01	18	01	01
15			+	62	07	+		01	01	18	01	01
16				+	01	01		+	02	18	01	01
17					01	01		01	01	18	01	01
18					01	01		+	01	18	01	01
19			+		+	+	+	01	01	18	01	01
20			05		+	+	01	+	01	18	01	01
21			12		+	+	+		01	18	01	01
22			06		01	01	01		01	18	01	01
23	+		+		+	01	+		+	18	01	01
24	01		38	+	+	01	+		01	18	01	01
25	01		04	158	01	01	01		01	20	01	01
26	01		+	01	01	01	109		01	20	01	01
27	01		0	+	01	34	50		01	18	01	01
28	+		07		49	25	01	+	01	18	01	01
29	+		+		153	+	+	01	01	18	01	01
30	0	+	+			+	+	01	01	02	01	01
31	+		+	+		+		01		01	01	
	09		416		1103		619		28		31	
		+		1641		125		15		326		30
MEAN	0.03	+	1.34	5.29	3.80	0.40	2.06	0.05	0.09	1.05	0.10	0.1
ACRE-FEET	1.8	+	82.	325.	219.	25.	123.	3.0	5.6	65.	6.2	6.0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 1.19
ACRE-FEET 862.

74D14M C(b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

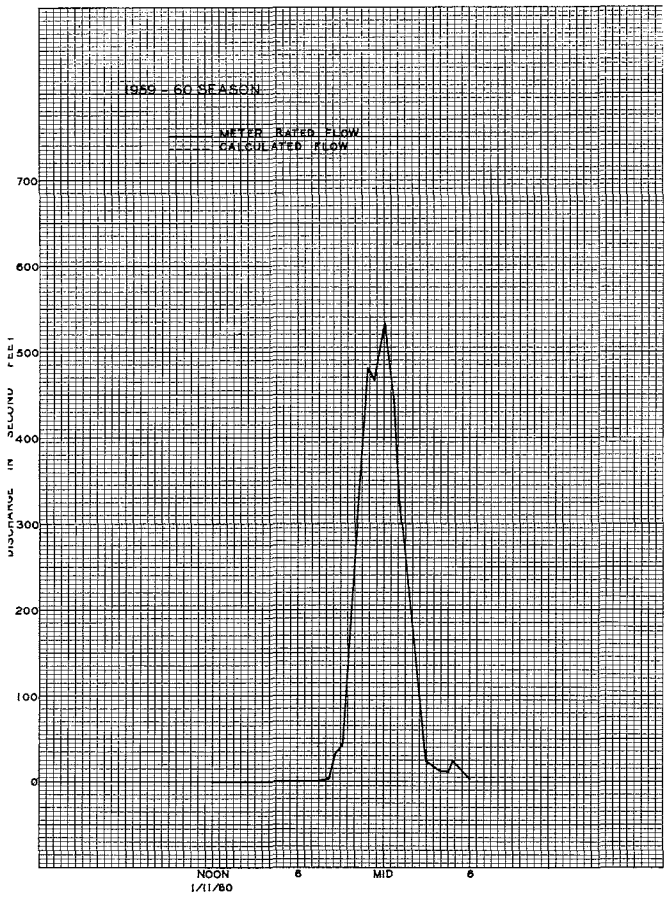
Sta. No. F252-R

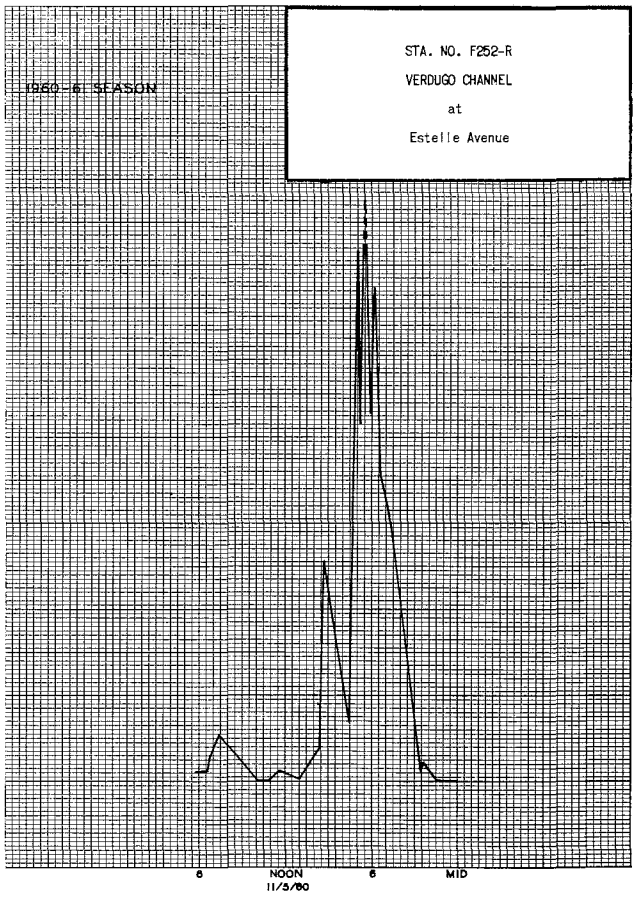
Daily discharge, in second-feet of VERDUGO WASH at Estelle Street, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0.1	a 0.1	0.1	0.1	0.1	0.1	+	+	+	+	+	+
2	0.1	a 0.1	3.6	+	0.1	0.1	+	0.1	+		+	
3	0.1	a 9.5	+		+	+	0.1	0.1	0.1		+	
4	0.1	+			0.1	0.1	0.1	0.1	+		0.1	
5	0.1	8.6		+	0.1	+	0.1	+			+	+
6	0.1	3.6		0.1	0.1		4.1	0.1				0.1
7	0.1	0.1		+	0.1		0.1	0.1				+
8	0.8	+		+	0.1		+	+				
9	1.2			0.1	0.1			0.1				
10	+		+	0.1	0.1	+		0.1			+	
11		+	0.1	0.1	0.1	0.1		+			0.1	
12		19.0	+	0.1	0.1	+					+	
13		0.1		0.1	0.1	0.1						
14		0.1	0.1	0.1	0.1	0.1			+			+
15		+	0.1	0.1	0.1	18.9						
16		+	0.1	0.1	0.1	+		+	0.1			0.1
17			+	0.1	0.1			0.1	0.1			0.1
18	+		+	0.1	0.1		+	0.1	+			+
19	0.1		0.1	0.1	+		0.1	+				
20	0.1		0.1	0.1	0.1	+	+					
21	0.1		+	0.1	0.1	0.1	+					
22	0.5		+	0.1	+	0.1	5.2					
23	0.7		+	0.1	+	0.1	+					
24	0.1		0.1	0.1	0.1	0.4	+	+				
25	+	+	0.1	0.7	0.1	0.8		0.1				
26	0.1	3.6	0.1	9.8	0.1	+		0.1				
27	0.1	+	0.1	0.2	0.1	+		+				
28	0.1	+	0.1	0.1	+	0.1						
29	0.1	0.1	+	0.1		0.8						
30	0.1	+	+	0.1		1.5	+	+	+			+
31	0.1		0.1	0.1		1.0		+		+	+	
	4.9		4.9		2.3		9.8		0.3		0.2	
		187.1		101.1		24.4		1.1		+		0.3
MEAN	0.16	6.24	0.16	3.26	0.08	0.79	0.33	0.04	0.01	+	0.01	0.01
ACRE-FEET	10.	371.	9.7	201.	4.6	48.	19.	2.2	0.6	+	0.4	0.6

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 0.92
ACRE-FEET 667.





STATION F304-R
WALNUT CREEK at Puente Avenue

LOCATION: WATER-STAGE RECORDER, LAT. 34°03'59", LONG. 117°57'57", ON THE LEFT (SOUTH) DOWNSTREAM WING WALL OF PUENTE AVENUE BRIDGE, ELEVATION OF ZERO GAGE HEIGHT 329.77 FEET ABOVE MEAN SEA LEVEL.

DRAINAGE AREA: 57.6 SQUARE MILES OF WHICH 32.3 SQUARE MILES ARE CONTROLLED BY PUDDINGSTONE DAM.

CHANNEL AND CONTROL: CHANNEL - EARTH, SAND AND GRAVEL WITH PIPE AND WIRE PROTECTING EARTH LEVEES. NO ARTIFICAL CONTROL.

DISCHARGE MEASUREMENTS: LOW FLOWS MEASURED BY WADING; HIGH FLOWS MEASURED FROM UPSTREAM SIDE OF PUENTE AVENUE BRIDGE.

RECORDER: AN AU RECORDER WAS IN SERVICE FROM OCTOBER 1, 1959 TO APRIL 4, 1961. STATION REMOVED FOR CHANNEL CONSTRUCTION.

REGULATION: FLOW PARTIALLY REGULATED BY SAN DIMAS DAM, PUDDINGSTONE DIVERSION DAM, PUDDINGSTONE DAM AND LIVE OAK DAM. IRRIGATION COMPANIES AT TIMES SPREAD SAN GABRIEL RIVER WATER FROM THE COVINA CANAL IN WALNUT CREEK.

DIVERSIONS: SEVERAL DIVERSIONS FOR IRRIGATION AND DOMESTIC USE.

RECORDS AVAILABLE: OCTOBER 14, 1952 TO APRIL 11, 1961. SEE STATION F47-R, WALNUT CREEK AT COVINA BOULEVARD, FOR PREVIOUS RECORDS.

REMARKS: ZONE 1 WATER WAS DELIVERED TO WHITTIER NARROWS VIA PUDDINGSTONE DAM AND WALNUT CREEK. APPROXIMATELY 8,790 ACRE FEET OF ZONE 1 WATER IS INCLUDED IN THE RECORD DURING THE MONTHS OF NOVEMBER AND DECEMBER 1960.

EXTREMES OF DISCHARGE:
1959-60
MAXIMUM 1160 SECOND-FEET JANUARY 12.
MINIMUM NO FLOW MOST OF YEAR.
1960-61
MAXIMUM 411 SECOND-FEET JANUARY 26.
MINIMUM NO FLOW MOST OF YEAR.
1952-61
MAXIMUM 3450 SECOND-FEET JANUARY 26, 1956.
MINIMUM NO FLOW MOST OF EACH YEAR.

ACCURACY: GOOD.

OPERATION: LOCATED, CONSTRUCTED AND OPERATED BY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT.

75D74M C&b 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No. F304-R

Daily discharge, in second-feet of WALNUT CREEK at Puente Avenue, for the year ending September 30, 1960

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	76	49	0	0				
2	0	0	0	0	13	0	0	0				
3	0	0	0	0	0	0	0	0				
4	0	0	0	0	0	0	0	0				
5	0	0	0	0	0	0	0	0				
6	0	0	0	0	0	0	0	0				
7	0	0	0	0	0	0	0	0				
8	0	0	0	0	25	0	0	0	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER	RECORDER STOPPED FOR SUMMER
9	0	0	0	0	39	0	0	0				
10	0	0	0	54	95	0	0	0				
11	0	0	0	206	0	0	0	0				
12	0	0	0	122	0	0	0	0				
13	0	0	0	0	0	0	0	0				
14	0	0	0	85	0	0	0	0				
15	0	0	0	70	0	0	0	0				
16	0	0	0	0	0	0	0	0				
17	0	0	0	0	0	0	0	0				
18	0	0	0	0	0	0	0	0				
19	0	0	0	0	0	0	0	0				
20	0	0	07	0	0	0	0	0				
21	0	0	52	0	0	0	0	0				
22	0	0	0	0	0	0	0	0				
23	0	0	0	0	0	0	0	0				
24	0	0	46	0	0	0	0	0				
25	0	0	37	89	0	0	0	0				
26	0	0	0	07	0	0	05	RECORDER STOPPED FOR SUMMER				
27	0	0	0	0	0	0	163					
28	0	0	0	0	10	13	94					
29	0	0	0	0	11	0	0					
30	0	0	0	0		0	0					
31	0		0	0		0						
	0		89.9		149.4		172.9		EO		EO	
		0		227.1		17.9		EO		EO		EO
MEAN	0	0	2.90	7.33	5.15	0.58	5.76	EO	EO	EO	EO	EO
ACRE-FEET	0	0	178.	450.	296.	36.	343.	EO	EO	EO	EO	EO

Remarks:

YEAR OR PERIOD MEAN 1.80
ACRE-FEET 1300.

7SD74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

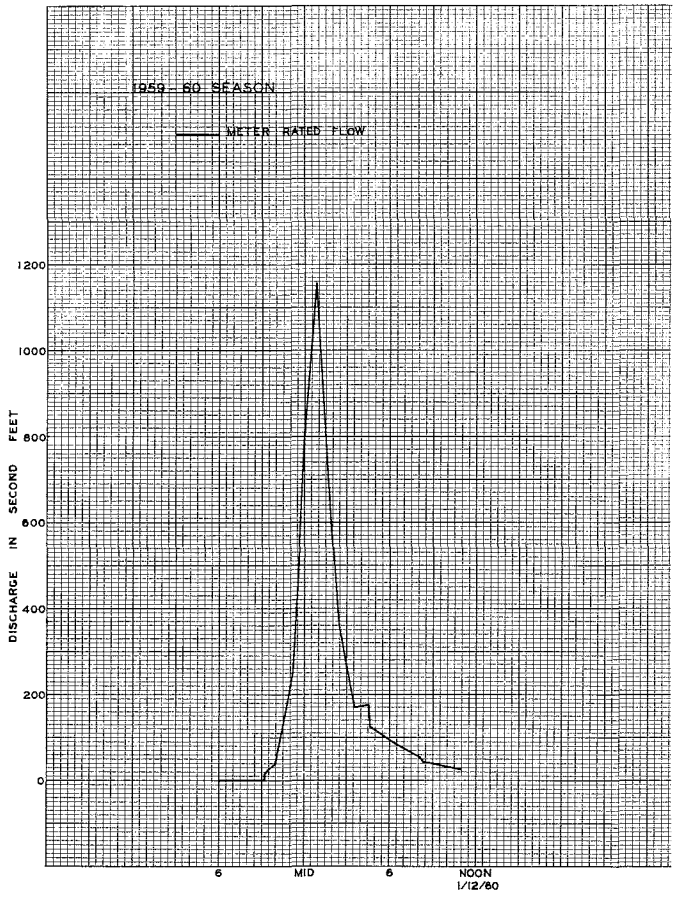
Sta. No. F304-R

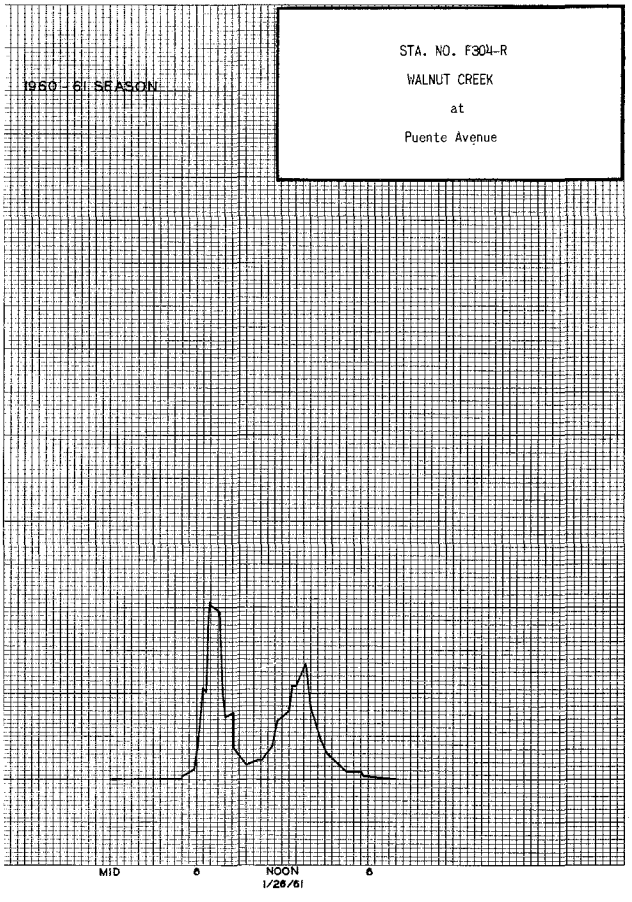
Daily discharge, in second-feet of WALNUT CREEK at Puente Avenue, for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	31	0	0	0	0	0	0	0	0	0
3	0	22	137	0	0	0	0	0	0	0	0	0
4	0	+	258	0	0	0	0	+	0	0	0	0
5	0	29	234	0	0	0	0	0	0	0	0	0
6	0	47	239	0	0	0	0	0	0	0	0	0
7	0	0	231	0	0	0	0	0	0	0	0	0
8	0	0	a231	0	0	0	0	0	0	0	0	0
9	0	0	a234	0	0	0	0	0	0	0	0	0
10	5.4	0	228	0	0	0	0	0	0	0	0	0
11	0	34	217	0	0	0	0	0	0	0	+	0
12	0	128	208	0	0	0	0	0	0	0	0	0
13	0	21	214	0	0	0	0	0	0	0	0	0
14	0	97	211	0	0	0	0	0	0	0	0	0
15	0	166	74	0	0	5.5	0	0	0	0	0	0
16	0	243	0	0	0	0	0	0	0	0	0	0
17	0	272	0	0	0	0	0	0	0	0	0	0
18	0	264	0	0	0	0	0	0	0	0	0	0
19	0	256	0	0	0	0	0	0	0	0	+	0
20	0	165	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	E4.5	0	0	0	0	0
23	0	0	0	0	0	0	+	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	32	0	63	0	0	0	0	0	0	+	0
27	0	0	0	09	0	0	0	0	0	0	0	0
28	0	0	0	0	0	11	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
	5.4		2719.1		0		E4.5		E0		E+	
		1733.7		63.9		16.5		E÷		E0		E0
MEAN	0.17	57.8	87.7	2.1	0	0.5	0	E+	E0	E0	E+	E0
ACRE-FEET	11.	3440.	5390.	127.	0	33.	0	E+	E0	E0	E+	E0

Remarks: + = 0.05 CFS OR LESS

YEAR OR PERIOD MEAN 12.4
ACRE-FEET 9010.





STAFF GAGE STATIONS

DISCHARGE MEASUREMENTS OF ARROYO SECO F58-S

AT NEAR Avenue 26 DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
557	10/1	1440 / 1447	WOOD	6.5	0.63	1.22		0.77		.5	8		FC53
558	10/8	0830 / 0938	"	7.5	0.74	1.12		0.83		.5	7		"
559	10/15	1431 / 1438	"	6.5	0.57	1.35		0.77		.5	7		"
560	10/22	1313 / 1319	"	6.0	0.62	1.20		0.74		.5	6		"
561	10/29	1434 / 1440	"	8.0	0.86	1.12		0.96		.5	7		"
562	11/5	1308 / 1315	"	7.5	1.11	1.08		1.2		.5	7		"
563	11/12	1309 / 1315	"	8.0	1.01	1.38		1.4		.5	7		"
564	11/19	1230 / 1235	"	8.0	0.92	1.01		0.93		.5	6		"
565	11/25	1455 / 1601	"	8.5	1.31	1.07		1.4		.5	7		"
566	12/3	1357 / 1403	"	7.0	1.05	1.24		1.3		.5	6		"
567	12/10	1348 / 1355	"	8.9	1.25	0.96		1.2		.5	7		"
568	12/17	1258 / 1303	"	7.5	0.94	1.38		1.3		.5	6		"
569	12/23	1314 / 1318	"	6.5	0.74	1.10		0.81		.5	6		"
570	12/30	1457 / 1505	"	8.0	0.70	1.27		0.89		.5	9		"
571	1/7	1341 / 1347	"	6.0	0.54	1.86		1.0		.5	7		"
572	1/21	1510 / 1516	"	7.0	0.84	1.55		1.3		.5	7		"
573	1/28	1352 / 1358	"	7.5	0.76	1.58		1.2		.5	7		"
574	2/4	1345 / 1351	"	7.0	0.85	2.00		1.7		.5	6		"
575	2/11	1525 / 1530	"	8.0	0.92	1.96		1.8		.5	5		"
576	2/18	1335 / 1343	BOWMAN	8.0	2.15	0.98		2.1		.5	9		"
577	2/25	1411 / 1417	WOOD	7.0	0.95	1.37		1.3		.5	8		"
578	3/3	1056 / 1105	"	7.0	0.85	1.64		1.4		.5	8		"
579	3/10	1341 / 1349	"	7.0	1.00	1.70		1.7		.5	8		"
580	3/17	1524 / 1531	"	7.0	0.72	2.22		1.6		.5	8		"
581	3/24	1350 / 1358	COOK-WOOD	8.0	1.27	1.42		1.8		.5	6		"
582	3/31	1349 / 1354	WOOD	8.0	1.03	1.56		1.6		.5	6		"
583	4/7	1530 / 1538	"	8.0	1.16	1.46		1.7		.5	8		"
584	4/14	1400 / 1406	"	8.0	1.22	1.24		1.5		.5	7		"
585	4/21	1540 / 1545	"	7.7	0.94	1.17		1.1		.5	6		"
586	4/28	1137 / 1143	"	7.8	1.16	1.72		2.0		.5	8		"
587	5/5	1420 / 1426	"	7.9	1.03	1.36		1.4		.5	9		"
588	5/12	1523 / 1530	"	8.1	1.10	1.36		1.5		.5	8		"
589	5/26	1544 / 1552	"	8.0	1.11	1.36		1.5		.5	8		"
590	6/2	1344 / 1354	"	7.8	1.02	1.08		1.1		.5	9		"
591	6/9	1513 / 1518	"	8.1	1.20	1.50		1.8		.5	7		"
592	6/16	0858 / 0908	WOOD-STUNDEN	7.9	1.04	1.25		1.3		.5	9		"
593	6/23	0833 / 0841	WOOD	8.4	1.13	0.97		1.1		.5	8		"
594	6/30	1440 / 1449	"	7.2	0.81	1.00		0.81		.5	8		"
595	7/7	1438 / 1446	"	6.5	0.74	1.26		0.93		.5	8		"
596	7/14	1442 / 1449	"	6.3	0.61	1.36		0.83		.5	8		"
597	7/21	1456 / 1501	WOOD-GDEKIRK	5.9	0.64	1.56		1.00		.5	7		"
598	7/28	1447 / 1454	WOOD	6.0	0.61	1.15		0.70		.5	7		"
599	8/4	1343 / 1351	"	7.2	1.13	1.86		2.1		.5	8		"
600	8/10	1305 / 1317	WOOD-BOWMAN	7.5	1.57	1.66		2.6		.5	9		"
601	8/24	1515 / 1520	BOWMAN	6.0	1.02	1.47		1.5		.5	7		FC48
602	9/1	1325 / 1332	"	5.5	0.83	1.44		1.2		.5	7		"
603	9/8	1400 / 1406	"	5.5	0.59	1.70		1.0		.5	7		"
604	9/15	1442 / 1452	"	6.5	0.62	1.26		0.78		.5	8		"
605	9/22	1315 / 1322	"	6.0	0.70	0.94		0.66		.5	7		"
606	9/29	1345 / 1355	"	6.0	0.54	0.95		0.51		.5	7		"

DISCHARGE MEASUREMENTS OF ARROYO SECO F58-S

AT NEAR Avenue 26 DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
607	10/6	1404 / 1410	BOWMAN	6.0	0.60	1.00		0.60		.5	7		FC48
608	10/13	1305 / 1315	"	6.5	0.68	0.82		0.56		.5	8		FC64
609	10/19	1318 / 1322	BOWMAN-FALCONE	7.0	0.60	0.90		0.55		.5	8		FC48
610	10/27	1438 / 1442	BOWMAN	4.0	0.57	1.31		0.75		.5	5		"
611	11/10	1007 / 1016	"	7.0	1.04	1.06		1.1		.5	8		"
612	11/17	1320 / 1330	"	8.0	1.13	1.32		1.5		.5	9		"
613	11/23	1340 / 1350	"	7.0	1.00	0.89		0.89		.5	8		"
614	12/1	1455 / 1503	"	8.0	1.14	1.32		1.5		.5	9		"
615	12/8	1232 / 1243	"	9.0	1.97	0.76		1.5		.5	10		"
616	12/15	1437 / 1442	"	9.0	1.59	1.13		1.8		.5	10		"
617	12/22	1300 / 1310	"	7.5	1.52	1.05		1.6		.5	9		"
618	12/29	1340 / 1348	"	7.0	1.08	0.93		1.0		.5	8		"
619	1/5	1510 / 1516	"	5.5	1.22	1.07		1.3		.5	7		"
620	1/12	0827 / 0845	PENTON-BOWMAN	5.5	1.26	1.03		1.3		.5	8		"
621	1/19	1330 / 1340	BOWMAN	5.5	1.36	1.03		1.4		.5	8		"
622	2/2	1450 / 1500	"	8.0	1.34	1.27		1.7		.5	9		"
623	2/9	1007 / 1015	"	8.0	1.37	1.39		1.9		.5	9		"
624	2/16	1306 / 1316	"	10.0	1.64	1.04		1.7		.5	10		"
625	2/23	1320 / 1326	"	8.0	1.07	1.03		1.1		.5	9		"
626	3/2	0844 / 0853	"	11.0	1.69	0.95		1.6		.5	12		"
627	3/9	1355 / 1402	"	8.0	1.39	0.86		1.2		.5	9		"
628	3/16	1440 / 1447	"	7.0	1.04	1.06		1.1		.5	8		"
629	3/23	1421 / 1430	"	7.0	1.26	0.74		0.93		.5	8		"
630	3/30	1522 / 1526	"	7.0	0.84	1.06		0.89		.5	8		"
631	4/6	1413 / 1430	FRAZELLE-BOWMAN	9.5	2.29	1.72		3.9		.5	10		FC64
632	4/13	1515 / 1521	BOWMAN	8.0	1.11	0.78		0.87		.5	9		FC48
633	4/20	1340 / 1346	"	7.0	0.83	0.68		0.56		.5	8		"
634	4/27	1415 / 1421	BOWMAN-LINDSAY	7.0	0.68	0.84		0.57		.5	8		"
635	5/4	1440 / 1445	BOWMAN	7.0	0.76	0.64		0.49		.5	8		"
636	5/11	1330 / 1336	"	6.0	0.62	0.74		0.46		.5	7		"
637	5/18	1536 / 1542	"	6.0	0.73	0.86		0.63		.5	7		"
638	5/25	1320 / 1325	"	8.0	1.04	3.46		3.6		FLOATS	5		
639	6/1	1320 / 1328	"	6.0	0.64	0.89		0.57		.5	7		FC48
640	6/8	1355 / 1405	"	7.0	0.76	0.59		0.45		FLOATS	8		
641	6/15	1400 / 1410	"	6.0	0.50	2.28		0.85		"	7		
642	6/22	1400 / 1407	"	6.0	0.61	1.36		0.83		.5	7		FC48
643	6/29	1520 / 1530	"	6.3	1.00	0.74		0.74		.5	9		"
644	7/6	1455 / 1505	WALTER	6.5	1.66	0.78		1.3		.5 .6	9		FC65
645	7/13	1520 / 1527	BOWMAN	5.8	0.73	1.07		0.78		.5	8		FC48
646	7/20	1455 / 1505	"	6.0	0.71	1.18		0.84		.5	7		"
647	7/27	1535 / 1545	"	6.0	0.54	1.26		0.68		.5	7		"
648	8/3	1155 / 1205	"	7.0	1.05	2.28		2.4		FLOATS	8		
649	8/10	1330 / 1336	"	6.0	0.83	1.08		0.89		.5	7		FC48
650	8/17	1412 / 1418	"	7.0	1.00	1.50		1.5		.5	8		"
651	8/24	1020 / 1027	"	8.0	1.97	1.67		3.3		.5	9		"
652	8/31	1546 / 1556	"	7.0	0.66	0.94		0.62		.5	8		"
653	9/7	1420 / 1428	"	7.0	0.75	1.01		0.76		.5	8		"
654	9/14	0843 / 0850	"	7.0	0.76	0.75		0.57		.5	8		"
655	9/21	1516 / 1530	BOUCHER-BOWMAN	9.0	1.47	0.62		0.91		.5	10		"
656	9/28	1454 / 1502	BOWMAN	3.4	0.55	1.22		0.67		.5	9		"

DISCHARGE MEASUREMENTS OF BANTA DITCH F87-S

AT NEAR Head of Pipeline DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1176	10/1	1545	WADDICOR	RECTANGULAR	WEIR		0.61	4.8					
1177	10/8	1530	"	"	"	"	0.70	5.8					
1178	10/15	1510	"	"	"	"	0.52	3.7					
1179	10/23	1500	"	"	"	"	0.52	3.8					
1180	10/29	1440	"	"	"	"	–	0.0					
1181	11/4	1433	"	"	"	"	0.68	5.6					
1182	11/5	1515	WADDICOR-ROY	"	"	"	0.20	0.89					
1183	11/12	1602	WADDICOR	"	"	"	0.36	2.2					
1184	11/19	1407	"	"	"	"	0.50	3.5					
1185	12/10	1430	"	"	"	"	–	0.0					
1186	12/17	1440	"	"	"	"	0.52	3.7					
1187	12/23	1232	"	"	"	"	0.70	5.8					
1188	12/30	1617	"	"	"	"	–	0.0					
1189	1/6	1515	"	"	"	"	–	0.0					
1190	1/13	1200	"	"	"	"	–	0.0					
1191	1/20	1545	"	"	"	"	–	0.0					
1192	1/28	1452	"	"	"	"	–	0.0					
1193	2/4	1358	"	"	"	"	–	0.0					
1194	2/18	1540	"	"	"	"	–	0.0					
1195	2/25	1445	"	"	"	"	–	0.0					
1196	3/3	1700	"	"	"	"	–	0.0					
1197	3/10	1630	WADDICOR-HOLLERON	"	"	"	–	0.0					
1198	3/24	1732	WADDICOR	"	"	"	–	0.0					
1199	3/30	1615	WADDICOR-BOWMAN	"	"	"	0.60	4.6					
1200	4/7	1600	WADDICOR	"	"	"	0.60	4.6					
1201	4/14	1430	ROY	"	"	"	0.60	4.6					
1202	4/20	1507	"	"	"	"	0.65	5.2					
1203	5/19	1550	"	"	"	"	0.66	5.4					
1204	5/26	1540	"	"	"	"	0.57	4.4					
1205	6/2	1615	"	"	"	"	EST.	0.2					
1206	6/9	1545	"	"	"	"	0.65	5.2					
1207	6/16	1530	"	"	"	"	0.67	5.5					
1208	6/23	1450	"	"	"	"	0.42	2.8					
1209	6/30	1440	"	"	"	"	0.51	3.7					
1210	7/7	1400	BROOK	"	"	"	0.42	2.7					
1211	7/14	1500	ROY	"	"	"	0.28	1.5					
1212	7/21	1430	"	"	"	"	0.23	1.1					
1213	7/28	1435	"	"	"	"	0.30	1.7					
1214	8/4	1440	"	"	"	"	0.18	0.77					
1215	8/11	1426	"	"	"	"	0.18	0.77					
1216	8/18	1430	"	"	"	"	0.16	0.64					
1217	8/25	1430	"	"	"	"	–	+					
1218	9/1	1520	"	"	"	"	–	+					
1219	9/8	1345	"	"	"	"	–	+					
1220	9/15	1400	"	"	"	"	0.07	0.18					
1221	9/23	0940	"	"	"	"	–	+					
1222	9/29	1510	"	"	"	"	–	+					

DISCHARGE MEASUREMENTS OF Banta Ditch F87-S

AT NEAR Head of Pipeline DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1223	10/7	0940	ROY	3' RECTANGULAR WEIR				0.11					
1224	10/13	1445	"	"	"	"		1.6					
1225	10/20	1505	"	"	"	"		0.42					
1226	10/27	1505	"	"	"	"		1.7					
1227	11/3	1455	ROY-CONNER					NO FLOW					
1228	1/12	1420	ROY	3' RECTANGULAR WEIR				6.3					
1229	1/19	1545	ROY-FALCONE					0.1		EST.			
1230	4/5	1520	ROY-PETERSEN	3' RECTANGULAR WEIR				0.58					
1231	4/12	1500	ROY-FALCONE	"	"	"		0.58					
1232	4/13	1530	ROY	"	"	"		2.6					
1233	4/20	1520	"					0.2		EST.			
1234	5/4	1542	"	3' RECTANGULAR WEIR				1.6					
1235	5/11	1355	"	"	"	"		1.4					
1236	6/1	1450	"	"	"	"		1.7					
1237	6/8	1630	"	"	"	"		1.3					
1238	6/15	1600	"	"	"	"		2.5					
1239	6/22	1530	"	"	"	"		1.0					
1240	6/29	1440	"					0.4		EST.			
1241	7/6	0910	"	3' RECTANGULAR WEIR				1.0					
1242	7/13	1530	"					0.1		EST.			
1243	7/20	1520	"	3' RECTANGULAR WEIR				0.6					

DISCHARGE MEASUREMENTS OF BIG DALTON - M.W.D. BLOWOFF F343-S

AT NEAR below Sierra Madre Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	12/21	1120 / 1125	SARASUA	3.5	1.00	8.80		8.8		.6	8		FC54
2	12/21	1145 / 1150	"	5.5	1.70	5.94		10.1		.6	12		"
3	12/21	1420 / 1430	"	29.0	8.80	1.47		13.0		.6	13		FC49
4	12/22	0830 / 0835	"	4.5	1.46	9.59		14.0		.6	8		FC54
5	12/29	1240 / 1250	"	6.2	1.42	9.85		14.0		.6	14		"
6	12/31	1055 / 1100	"	3.8	1.50	8.73		13.1		.6	9		"
7	12/31	1105 / 1110	"	3.8	1.50	9.00		13.5		.6	9		"
8	12/31	1655 / 1700	"	3.5	1.10	6.90		7.6		.6	8		"
9	1/4	1530 / 1535	"	2.8	1.01	8.81		8.9		.6	7		"
10	1/4	1550 / 1555	"	2.4	0.94	9.04		8.5		.6	6		"
11	1/5	0935 / 0940	"	2.8	1.15	7.22		8.3		.6	7		"
12	1/5	0940 / 0945	"	3.0	1.13	7.35		8.3		.6	7		"
13	1/6	1005 / 1010	"	2.9	1.10	7.45		8.2		.6	7		"
14	1/7	1030 / 1035	"	2.9	1.08	7.22		7.8		.6	7		"

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK F143-S

AT NEAR above Pallett Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
490	10/14	1330 / 1340	WHISLER	6.5	2.18	0.78		1.7		.5 / .6	8		FC59
491	10/28	1310 / 1315	"	7.0	2.37	0.67		1.6		.5	8		FC41
492	11/10	1208 / 1216	"	6.5	1.89	0.74		1.4		.5	8		FC59
493	11/24	1026 / 1034	"	7.5	2.97	0.54		1.6		.5	9		"
494	12/9	1200 / 1208	HOLLERON-WHISLER	6.8	2.49	0.48		1.2		.5 / .6	8		"
495	12/22	1310 / 1317	WHISLER	7.5	2.88	0.45		1.3		.5	9		"
496	12/29	1018 / 1024	"	7.0	1.65	0.85		1.4		.5 / .6	8		"
497	1/13	1410 / 1416	"	11.0	3.32	0.39		1.3		.5	8		"
498	1/20	1330 / 1340	"	7.0	2.59	0.58		1.5		.5 / .6	8		"
499	1/27	1335 / 1345	"	7.0	1.76	0.68		1.2		.5 / .6	8		"
500	2/3	1105 / 1115	"	7.0	1.87	0.75		1.4		.5 / .6	8		"
501	2/10	1402 / 1410	"	7.0	1.91	0.84		1.6		.5	8		"
502	2/17	1550 / 1600	"	7.0	1.81	0.88		1.6		.5	8		"
503	2/24	1540 / 1550	"	7.0	2.00	0.90		1.8		.5	8		"
504	3/2	1525 / 1533	"	7.0	2.18	0.83		1.8		.5 / .6	8		"
505	3/9	1536 / 1550	COOK-WHISLER	10.0	3.69	0.65		2.4		.5 / .6	11		"
506	3/16	1540 / 1552	WHISLER	10.0	4.01	0.65		2.6		.5	11		"
507	3/26	1520 / 1528	"	11.0	4.22	0.76		3.2		.5 / .6	9		"
508	3/30	1615 / 1622	"	11.0	4.36	0.83		3.6		.5 / .6	9		"
509	4/6	1538 / 1546	"	11.0	4.12	0.81		3.3		.5 / .6	9		"
510	4/13	1405 / 1413	"	10.0	4.01	0.72		2.9		.5	11		"
511	4/20	1417 / 1425	"	11.0	4.35	0.76		3.3		.5 / .6	10		"
512	4/27	1340 / 1352	"	10.5	4.23	0.76		3.2		.5 / .6	12		"
513	5/4	1340 / 1352	"	10.5	4.24	0.71		3.0		.6	12		"
514	5/11	1340 / 1352	"	10.5	3.92	0.72		2.8		.6	10		"
515	5/25	1048 / 1100	MC BRIDE - WHISLER	10.3	3.60	0.71		2.6		.5 / .6	12		"
516	6/8	1325 / 1335	WHISLER	10.5	3.68	0.58		2.2		.5	11		"
517	6/22	1318 / 1328	"	10.0	3.41	0.53		1.8		.5	11		"
518	7/5	1400 / 1420	MC BRIDE	9.5	3.05	0.48		1.5		.5 / .6	12		FC60
519	7/20	1236 / 1246	"	5.6	1.83	0.82		1.5		.5	7		FC33
520	8/3	1012 / 1018	WHISLER	5.5	1.79	0.67		1.2		.5	7		FC59
521	8/17	0952 / 0958	"	6.5	1.01	0.99		1.0		.5	8		"
522	8/29	1040 / 1049	WHISLER-REISTES	5.0	0.81	1.17		0.95		.5	6		"
523	9/14	1013 / 1019	WHISLER	5.0	0.65	0.95		0.62		.5	6		"
524	9/28	1045 / 1050	"	5.0	0.64	0.91		0.58		.5	6		"

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK F143-S

AT NEAR above Pallett Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
525	10/26	1050 / 1056	WHISLER	4.8	0.62	0.76		0.47		.5	6		FC59
526	11/9	1036 / 1044	"	6.5	2.72	0.63		1.7		.5	7		"
527	11/16	1052 / 1056	"	5.0	0.66	0.71		0.47		.5	6		"
528	11/25	1220 / 1228	"	3.5	0.84	0.77		0.65		.5	5		"
529	12/1	1225 / 1233	"	4.0	0.99	0.75		0.74		.5	7		"
530	12/7	1045 / 1056	"	4.0	1.00	0.78		0.78		.5	7		"
531	12/14	1404 / 1460	"	4.0	0.97	0.68		0.66		.5	7		"
532	12/21	1100 / 1108	"	4.0	1.00	0.69		0.69		.5	7		"
533	12/28	1040 / 1048	"	3.8	0.97	0.75		0.73		.5	6		"
534	1/4	1345 / 1355	"	5.5	1.30	0.55		0.71		.5	8		"
535	1/11	1340 / 1350	"	4.5	0.99	0.76		0.75		.5	10		"
536	1/17	1308 / 1318	WHISLER-LINDSAY	5.0	1.34	0.54		0.72		.5	9		"
537	1/24	1324 / 1330	WHISLER	5.0	1.46	0.62		0.91		.5	11		"
538	2/1	1325 / 1330	"	5.5	2.03	0.44		0.90		.5	8		"
539	2/8	1307 / 1315	"	5.5	1.90	0.53		1.0		.5	10		"
540	2/15	1336 / 1344	"	5.5	1.90	0.72		1.4		.5	12		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
541	2/21	1107 / 1117	WHISLER	5.5	2.13	0.66		1.4		.5	11		FC59
542	3/1	1240 / 1250	"	5.5	1.96	0.82		1.6		.5	12		FC41
543	3/8	1008 / 1020	"	5.5	2.04	0.80		1.6		.5	12		FC59
544	3/15	1405 / 1410	WALTERS-WHISLER	5.8	2.33	0.64		1.5		.6	8		"
545	3/22	1417 / 1431	PENTON-WHISLER	6.2	2.27	0.75		1.6		.5	13		"
546	3/29	1114 / 1138	FRAZELLE-WHISLER	5.9	2.24	0.71		1.6		.5	12		"
547	4/5	1211 / 1224	WHISLER	6.0	2.29	0.72		1.6		.5	13		"
548	4/11	1428 / 1437	"	5.5	2.17	0.66		1.4		.5	11		"
549	4/19	1395 / 1425	"	5.5	1.96	0.79		1.5		.5	12		"
550	4/25	1330 / 1340	"	5.8	1.99	0.75		1.5		.5	13		"
551	5/2	1353 / 1405	PETERSEN-WHISLER	5.8	1.88	0.66		1.2		.5	13		"
552	5/10	1410 / 1418	WHISLER	5.5	1.75	0.64		1.2		.5	12		"
553	5/17	1340 / 1352	"	5.8	1.84	0.62		1.1		.5	12		"
554	5/24	1220 / 1232	"	5.5	1.73	0.59		1.0		.5	12		"
555	5/31	1135 / 1147	"	6.0	1.85	0.58		1.1		.5	12		"
556	6/14	1230 / 1236	PETERSEN-WHISLER	5.5	1.60	0.49		0.78		.5	7		"
557	6/28	1155 / 1205	PETERSEN	4.0	1.51	0.43		0.65		.5	7		"
558	7/12	1145 / 1155	"	4.0	1.39	0.46		0.64		.5	7		"
559	7/26	1037 / 1044	WHISLER	5.5	1.47	0.39		0.57		.5	9	0	"
560	8/9	1028 / 1036	"	5.6	1.33	0.38		0.51		.5	9		"
561	8/23	1200 / 1206	"	5.5	1.69	0.27		0.46		.5	7		"
562	9/6	1122 / 1128	"	5.5	1.32	0.32		0.42		.5	7		"
563	9/19	1014 / 1022	"	5.5	1.28	0.28		0.36		.5	7		"

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK F171-S

AT NEAR Valyermo Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
257	12/22	1349 / 1355	WHISLER	CHANNELS				1.3		.5	7		FC59
258	12/29	1110 / 1120	"		"			2.2		.5 / .6	12		"
259	1/13	1257 / 1318	"		"			5.0		.5 / .6	15		"
260	1/20	1238 / 1252	"		"			3.7		.5 / .6	17		"
261	1/27	1248 / 1303	"		"			5.0		.5 / .6	17		"
262	2/3	0943 / 0956	"		"			4.8		.5 / .6	16		"
263	2/10	1230 / 1244	"		"			5.2		.5 / .6	18		"
264	2/17	1448 / 1500	"		"			4.7		.5 / .6	15		"
265	2/24	1320 / 1332	"		"			4.2		.5 / .6	15		"
266	3/2	1417 / 1430	"		"			4.5		.5 / .6	15		"
267	3/9	1430 / 1450	COOK-WHISLER		"			4.6		.5 / .6	16		"
268	3/16	1424 / 1436	WHISLER		"			3.5		.5	16		"
269	3/23	1434 / 1440	"	7.8	2.39	0.67		1.6		.5	8		"
270	3/30	1320 / 1325	"	6.0	1.78	0.45		0.80		.5	7		"
271	4/6	1342 / 1344	"	4.0	0.82	0.17		0.14		.5	5		"
272	4/27	1240 / 1245	"	CHANNELS				1.2		.5	6		"
273	5/25	0954 / 0956	MC BRIDE - WHISLER	4.0	1.01	0.13		0.13		.5	5		"
274	7/5	1250 / 1255	" "	0.9	0.14	0.36		0.05		.5	4		FC60

DISCHARGE MEASUREMENTS OF BIG ROCK CREEK F171-S

AT NEAR Valyermo Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
275	11/9	1200 / 1216	WHISLER		CHANNELS			4.1		.5	14		FC59
276	12/1	1112 / 1125	"		"			1.3		.5	15		"
277	12/7	1125 / 1135	"		"			2.0		.5	17		"
278	12/14	1323 / 1338	"		"			2.3		.5	14		"
279	12/21	1320 / 1332	"		"			2.3		.5	15		"
280	12/28	0948 / 0955	"	10.0	1.55	0.90		1.4		.5	9		"
281	1/4	1215 / 1223	"	10.0	1.58	0.89		1.4		.5	9		"
282	1/11	1247 / 1257	"	10.0	1.96	1.02		2.0		.5	8		"
283	1/17	1228 / 1234	"	10.0	1.73	0.87		1.5		.5	7		"
284	1/24	1211 / 1217	"	10.0	1.71	0.82		1.4		.5	7		"
285	2/1	1146 / 1155	"	14.0	2.82	1.17		3.3		.5	9		"
286	2/8	1140 / 1148	"	14.0	2.31	1.13		2.6		.5	9		"
287	2/15	1140 / 1148	"	14.0	2.50	1.12		2.8		.5	9		"
288	2/21	1200 / 1210	"	4.0	0.64	0.98		0.63		.5	5		"
289	3/8	1122 / 1128	"	2.5	0.26	0.65		0.17		.5	5		"
290	3/15	1326 / 1334	WALTERS-WHISLER	2.3	0.24	0.42		0.10		.5	7		"
291	3/22	1302 / 1307	PENTON-WHISLER	2.0	0.20	0.55		0.11		.5	5		"
292	3/29	1010 / 1017	FRAZELLE-WHISLER	2.2	0.25	0.56		0.14		.5	7		"
293	4/5	1300 / 1303	WHISLER	2.0	0.23	0.65		0.15		.5	5		"
294	4/11	1327 / 1331	"	2.0	0.24	0.71		0.17		.5	5		"
295	4/19	1157 / 1200	"	2.0	0.23	0.70		0.16		.5	5		"
296	4/26	1244 / 1246	"	2.0	0.25	0.72		0.18		.5	5		"
297	5/2	1315 / 1318	PETERSEN-WHISLER	2.5	0.25	0.44		0.11		.5	6		"
298	5/10	1336 / 1340	WHISLER	2.3	0.20	0.60		0.12		.5	5		"
299	5/17	1304 / 1306	"	2.2	0.18	0.56		0.10		.5	5		"
300	5/24	1108 / 1110	"	2.0	0.14	0.57		0.08		.5	5		"

DISCHARGE MEASUREMENTS OF BUENA VISTA CHANNEL F339-S

AT NEAR above Buena Vista Pit DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
24	2/9	1054 / 1056	WOOD	6.5	0.30	1.16	0.06	0.35		FLOATS	6		

DISCHARGE MEASUREMENTS OF CASTAIC CREEK F140-S

AT NEAR Elizabeth Lake Canyon Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
40	4/28	1035 / 1040	WHISLER	5.5	0.76	0.89		0.68		.5	6		FC59

DISCHARGE MEASUREMENTS OF COLD CREEK F61-S

AT NEAR Crater Camp DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
221	3/10	0845	SJOSTEDT	90°	V NOTCH WEIR		0.24	0.07					
222	3/17	1110	"	"	"		0.23	0.07					
223	3/24	1115	"	"	"		0.27	0.10					
224	3/31	1115	"	"	"		0.25	0.08					
225	4/7	1140	"	"	"		0.18	0.04					
226	4/14	1200	"	"	"		0.15	0.02					
227	4/28	1220 / 1230	"	4.0	1.43	0.49		0.70		.5	6		FC47
228	5/5	1425	"	90°	V NOTCH WEIR		0.22	0.06					
229	5/12	1105	"	"	"		0.17	0.03					
230	5/19	1330	"	"	"		0.12	0.01					
231	5/26	1135	"	"	"		0.11	0.01					

DISCHARGE MEASUREMENTS OF BOUQUET CREEK F284-S

AT NEAR 1.5 Miles above Texas Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
145	10/1	1440 / 1444	WHISLER	2.8	0.40	1.38		0.55		.5	5		FC59
146	10/8	1010 / 1015	BOWMAN	0.80	0.06	0.33		0.02		.5	5		"
147	7/6	1118 / 1135	MC BRIDE	6.0	3.98	0.45		1.8		.5 / .6	13		FC60
148	7/14	1135 / 1149	"	6.5	5.14	0.61		3.1		.5 / .6	11		FC33
149	7/22	1045 / 1056	"	4.0	1.43	0.66		0.94		.6	9		"

DISCHARGE MEASUREMENTS OF BOUQUET CREEK F284-S

AT NEAR 1.5 Mi. above Texas Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
150	9/20	1100 / 1112	WHISLER	7.5	4.04	0.45		1.8		.5	9		FC59
151	9/27	1103 / 1105	"	1.2	0.10	1.00		0.10		.5	4		"

DISCHARGE MEASUREMENTS OF BUENA VISTA CHANNEL F339-S

AT NEAR above Buena Vista Pit DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
16	10/29	1538 / 1544	HOLLERON	8.0	0.80	1.05		0.84		.5	6		FC48
17	11/5	1454 / 1458	"	6.0	0.46	1.33		0.61	FLOATS		6		
18	11/19	0836 / 0844	"	7.4	1.33	1.73		2.3		.5	9		FC48
19	12/3	0844 / 0850	"	3.5	1.12	1.25		1.4		.6	8		"
20	12/23	0850 / 0858	"	3.5	1.22	1.15		1.4		.6	7		"
21	1/7	1515 / 1525	"	3.2	0.40	1.38		0.55		.5	9		"
22	2/29	1453 / 1507	"	16.0	2.56	1.49		3.8		.5	13		"
23	3/31	0901 / 0909	"	10.5	1.24	1.53		1.9		.5	9		"

DISCHARGE MEASUREMENTS OF COYOTE CREEK - North Fork F348-S

AT NEAR Imperial Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	2/2	1311 / 1314	FALCONE-BROOK	1.4	0.21	0.48		0.10		.5	4		FC35
2	2/6	1248 / 1253	BROOK	1.2	0.13	0.54		0.07		.5	5		FC53
3	2/28	1045 / 1056	"	9.0	4.68	1.00	0.17	4.7		.6	10		FC50 FC35
4	3/1	1240 / 1243	"	1.5	0.19	0.74		0.14		.5	5		FC50
5	3/3	1040 / 1054	BONADIMAN	28.0	7.95	0.68	0.18	5.4		.6	12		FC61
6	3/6	0859 / 0907	FRAZELLE-BROOK	1.9	0.34	0.47		0.16		.5	8		FC60
7	3/6	1100 / 1107	BROOK-FRAZELLE	8.7	3.90	1.13	0.17	4.4		.5 / .6	10		"
8	3/15	0833 / 0944	BROOK-BONADIMAN	38.0	32.4	2.38	0.77	77.0		.6	15		FC46
9	3/15	1321 / 1330	" "	12.0	5.21	2.03	0.23	10.6		.6	13		FC61
10	3/15	1627 / 1635	" "	10.1	3.36	1.16	0.14	3.9		.6	11		"
11	3/16	1511 / 1516	" "	2.8	0.62	1.20	0.03	0.74		.6	7		"
12	3/22	1158 / 1204	BROOK	5.3	1.31	0.92	0.07	1.2		.5	7		FC52
13	4/6	1543 / 1553	BONADIMAN	4.5	1.11	1.37		1.5		.6	7		FC61
14	4/12	1004 / 1012	WHISLER-FRAZELLE	11.0	4.06	1.01	0.10	4.1		.5	12		FC59
15	5/11	1542 / 1552	BONADIMAN	7.7	3.38	1.66	0.10	5.6		.6	8		FC61
16	5/18	1530 / 1541	"	9.3	2.47	1.25	0.12	3.1		.6	10		"
17	5/25	1542 / 1550	"	6.0	1.49	0.51		0.76		.6	7		"
18	6/1	1632 / 1642	"	5.5	1.64	0.78	0.07	1.3		.6	9		"
19	6/2	0912 / 0928	"	5.8	2.85	1.38	0.16	3.9		.6	11		"
20	6/8	1546 / 1554	"	6.7	1.73	0.97	0.09	1.7		.6	8		"
21	6/14	1132 / 1143	"	6.5	2.03	1.19	0.10	2.4		.6	9		"
22	6/22	1604 / 1610	"	3.0	0.29	0.35	0.02	1.0		.6	5		"
23	6/28	1018 / 1025	"	3.0	0.32	0.72	0.04	0.23		.5	6		"

COYOTE CREEK - NORTH FORK at Imperial Highway (Continued)

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
24	7/5	1002 / 1008	BONADIMAN	3.5	0.56	0.41	0.02	0.23		.6	6	0	FC61
25	7/12	1455 / 1501	BONADIMAN-PENTON	3.5	0.53	1.09	0.04	0.58		.6	7	0	"
26	7/13	1606 / 1616	BONADIMAN	6.3	1.99	1.22	0.10	2.4		.6	9	0	"
27	7/19	1121 / 1133	"	6.8	1.91	1.39	0.11	2.7		.6	10	0	"
28	7/19	1207 / 1220	"	6.7	1.84	1.24	0.10	2.3		.6	10	0	"
29	7/26	1102 / 1112	"	6.2	1.77	1.56	0.12	2.8		.6	9	0	"
30	7/26	1145 / 1155	"	6.2	1.78	1.32	0.11	2.4		.6	9	0	"
31	8/2	1041 / 1052	"	6.1	2.53	1.11	0.15	3.2		.6	9	0	"
32	8/9	1007 / 1014	"	3.2	0.30	0.83	0.01	0.25		.5	6	0	"
33	8/16	1002 / 1022	"	8.2	3.71	1.48	0.17	5.5		.6	9	+.03	FC19
34	8/16	1058 / 1108	"	8.0	3.61	1.32	0.16	4.8		.6	9	+.01	"
35	8/23	1033 / 1045	"	6.7	4.71	1.41	0.17	6.6		.6	9		"
36	8/30	1004 / 1012	"	3.2	0.37	0.54	0.03	0.20		.5	7	0	FC61
37	9/7	1426 / 1435	BROOK	4.0	0.84	1.55	0.08	1.3		.5	9	0	"
38	9/12	0949 / 1005	"	10.7	3.01	1.43	0.18	4.3		.5	13	0	"
39	9/14	1407 / 1413	"	3.1	0.37	0.73	0.05	0.27		.5	7	0	"
40	9/19	0907 / 0919	"	12.0	4.63	1.59	0.22	7.4		.5	13		"
41	9/21	1406 / 1413	"	6.2	1.52	1.12	0.10	1.7		.5	8		"
42	9/27	1007 / 1017	BONADIMAN	5.9	2.34	1.19	0.13	2.8		.6	9	0	FC19

DISCHARGE MEASUREMENTS OF DEVILS PUNCH BOWL CREEK F178-S

AT NEAR above Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
44	1/13	1144 / 1150	WHISLER	3.5	0.60	0.88		0.53		.5	7		FC59
45	1/20	1208 / 1210	"	2.5	0.37	0.49		0.18		.5	5		"
46	1/27	1231 / 1235	"	3.5	0.47	1.02		0.48		.5	5		"
47	2/3	0905 / 0909	"	3.5	0.48	1.33		0.64		.5	5		"
48	2/17	1356 / 1400	"	2.0	0.16	0.62		0.10		.5	5		"
49	2/24	1240 / 1242	"	1.7	0.21	0.67		0.14		.5	5		"
50	3/2	1357 / 1400	"	2.5	0.33	0.82		0.27		.5	5		"
51	3/9	1400 / 1403	COOK-WHISLER	1.8	0.14	1.07		0.15		.5	5		"
52	3/16	1330 / 1334	WHISLER	1.9	0.19	0.68		0.13		.5	5		"
53	3/23	1420 / 1422	"	1.5	0.15	0.87		0.13		.5	4		"
54	3/30	1232 / 1234	"	1.5	0.12	0.83		0.10		.5	4		"
55	4/6	1330 / 1332	"	1.0	0.07	0.57		0.04		.5	4		"
56	4/27	1215 / 1217	"	3.0	0.60	1.67		1.0		.5	4		"
57	5/4	1227 / 1229	"	1.5	0.11	0.82		0.09		.5	4		"

DISCHARGE MEASUREMENTS OF DEVIL'S PUNCH BOWL CREEK F178-S

AT NEAR above Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
58	11/6	1127 / 1130	WHISLER	2.4	0.21	1.62		0.34		.5	4		FC59
59	11/25	1105 / 1107	"	1.2	0.08	0.50		0.04		.5	4		"
60	12/1	1040 / 1042	"	1.5	0.10	0.70		0.07		.5	4		"
61	12/7	1213 / 1215	"	3.0	0.30	0.73		0.22		.5	4		"
62	12/21	1220 / 1222	"	1.2	0.12	0.92		0.11		.5	4		"
63	12/28	0800 / 0802	"	1.4	0.09	0.41		0.04		.5	4		"
64	1/4	1058 / 1100	"	1.2	0.06	0.67		0.04		.5	4		"
65	1/11	1138 / 1140	"	1.2	0.08	0.50		0.04		.5	4		"
66	2/1	1112 / 1115	"	3.2	0.23	1.09		0.25		.5	5		"
67	2/8	1120 / 1122	"	2.0	0.13	0.93		0.12		.5	4		"
68	2/15	1106 / 1108	"	1.8	0.10	0.70		0.07		.5	4		"
69	2/21	1310 / 1312	"	1.5	0.09	0.56		0.05		.5	4		"
70	3/8	1134 / 1135	"	1.0	0.06	0.75		0.04		.5	3		"
71	3/15	1228 / 1230	WALTER-WHISLER	1.5	0.11	0.91		0.10		.5	4		"
72	3/29	0926 / 0931	FRAZELLE	1.5	0.13	0.92		0.12		.5	5		"

DISCHARGE MEASUREMENTS OF ELIZABETH LAKE CREEK F141B-S

AT NEAR 2.4 Miles above Castaic Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
346	2/18	1034 / 1040	WHISLER	6.5	2.10	0.52		1.1		.5	8		FC59
347	2/25	0908 / 0914	"	6.5	2.14	0.70		1.5		.5	8		"
348	3/3	1017 / 1024	"	7.5	3.35	0.84		2.8		.5/.6	9		"
349	3/10	0949 / 1001	COOK-WHISLER	8.0	2.12	0.80		1.7		.5	9		"
350	3/17	1200 / 1205	WHISLER	6.5	1.98	0.71		1.4		.5	7		"
351	3/24	0924 / 0930	"	6.5	1.97	0.66		1.3		.5	8		"
352	3/31	1051 / 1055	"	6.5	1.91	0.68		1.3		.5	7		"
353	4/7	1004 / 1008	"	3.0	0.58	1.48		0.85		.5	7		"
354	4/14	1055 / 1100	"	3.0	0.55	1.02		0.56		.5	7		"
355	4/28	1045 / 1054	"	17.0	5.28	1.58		8.3		.5/.6	10		"
356	5/5	0836 / 0842	"	6.5	1.28	0.86		1.1		.5	7		"
357	5/12	1000 / 1002	"	3.0	0.24	0.58		0.14		.5	4		"

DISCHARGE MEASUREMENTS OF ELIZABETH LAKE CREEK F141-S

AT NEAR 2.4 Mi. above Castaic Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
358	3/2	1010 / 1014	WHISLER	2.5	0.36	0.64	2.24	0.23		.5	6		FC60
359	3/9	0746 / 0752	"	3.0	0.40	0.88	2.26	0.35		.5	6		FC59
360	3/16	1116 / 1123	WALTER-WHISLER	4.6	0.63	0.63		0.40		.5	8		"
361	3/23	0755 / 0800	PENTON-WHISLER	4.5	0.58	0.59	2.30	0.34		.5	6		"
362	3/30	0833 / 0845	FRAZELLE-WHISLER	4.5	0.62	0.55	2.29	0.34		.5	10		"
363	4/6	0810 / 0814	WHISLER	3.8	0.40	0.45		0.18		.5	5		"
364	4/13	0753 / 0755	"	1.5	0.15	0.33	2.23	0.05		.5	4	0	"

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER F398-S

AT NEAR Del Amo Boulevard DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	9/26	1259 / 1313	BROOK	22.0	7.53	1.46	0.94	11.0		.5/.6	13	0	FC35
2	9/26	1348 / 1401	"	23.4	11.2	1.27	0.96	14.2		.5/.6	13	+	"
3	9/26	1420 / 1431	"	26.6	11.4	1.28	0.97	14.6		.5/.6	13	.01	"
4	9/26	1458 / 1510	"	24.1	12.0	1.27	0.99	15.2		.5/.6	13	0	"
5	9/26	1531 / 1544	"	24.0	12.1	1.26	0.99	15.3		.5/.6	13	+	"
6	9/27	0816 / 0828	"	24.5	13.5	1.27	1.05	17.2		.5	15	0	"
7	9/28	1342 / 1358	FRAZELLE-BROOK	22.7	9.31	1.70	1.07	15.8		.5	13	0	"

DISCHARGE MEASUREMENTS OF MILL CREEK F112-S

AT NEAR above Big Tujunga Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
784	10/8	0955 / 1000	HYDE	0.80	0.11	0.27		0.03		.5	4		FC60
785	10/22	1028 / 1030	"	0.70	0.10	0.50		0.05		.5	4		"
786	10/29	0932 / 0935	"	0.80	0.12	0.50		0.06		.5	4		"
787	11/5	1000 / 1002	"	0.75	0.11	0.64		0.07		.5	4		"
788	11/19	0958 / 1002	"	0.80	0.13	0.69		0.09		.5	4		"
789	11/27	1404 / 1408	"	0.80	0.14	0.71		0.10		.5	4		"
790	12/3	0950 / 0956	"	0.90	0.16	1.06		0.17		.5	4		"
791	12/10	0950 / 0956	"	0.90	0.20	1.10		0.22		.5	4		"
792	12/17	1510 / 1515	"	0.90	0.18	1.17		0.21		.5	4		"
793	12/30	1242 / 1248	"	1.8	0.39	0.64		0.25		.5	4		"
794	1/7	1010 / 1014	"	1.8	0.37	0.76		0.28		.5	4		"
795	1/14	1004 / 1010	"	2.4	0.56	0.61		0.34		.5	5		FC40
796	1/21	1344 / 1350	"	1.8	0.43	0.93		0.40		.5	5		FC60
797	1/28	1000 / 1005	"	1.9	0.46	0.89		0.41		.5	5		"
798	2/4	1454 / 1500	"	2.0	0.53	0.96		0.51		.5	5		"

DISCHARGE MEASUREMENTS OF MILL CREEK F112-S

AT NEAR above Big Tujunga Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
799	2/11	1315 / 1320	HYDE	2.0	0.51	1.08		0.55		.5	5		FC60
800	2/18	1207 / 1211	PETERSEN-HYDE	2.0	0.49	0.98		0.48		.5	6		"
801	2/25	1420 / 1425	HYDE	2.0	0.47	0.89		0.42		.5	6		
802	3/3	1225 / 1232	COOK-HYDE	2.0	0.47	0.96		0.45		.5	5		"
803	3/10	1330 / 1334	HYDE	2.0	0.50	0.88		0.44		.5	5		FC40
804	3/17	1122 / 1127	"	2.0	0.47	0.83		0.39		.5	6		FC60
805	3/24	1444 / 1450	"	2.8	0.40	1.15		0.46		.5	6		"
806	3/31	1128 / 1136	"	2.5	0.43	1.00		0.43		.5	7		"
807	4/7	1128 / 1133	"	2.7	0.38	0.87		0.33		.5	6		"
808	4/14	1100 / 1105	"	2.0	0.45	0.91		0.41		.5	5		"
809	4/21	1020 / 1025	"	1.8	0.22	1.04		0.23		.5	5		"
810	4/27	1335 / 1340	"	2.2	0.59	1.08		0.64		.5	5		FC40
811	5/5	1008 / 1012	"	2.1	0.50	1.32		0.66		.5	5		"
812	5/12	0940 / 0944	"	1.8	0.30	0.57		0.17		.5	4		"
813	5/19	0955 / 1002	"	2.5	0.40	0.65		0.26		.5	6		FC60
814	5/26	1015 / 1020	PETERSEN-HYDE	2.0	0.37	0.78		0.29		.5	6		"
815	6/2	1020 / 1025	BROOK-HYDE	1.2	0.14	0.64	1.57	0.09		.5	5		"
816	6/9	0906 / 0910	HYDE	1.0	0.13	0.77	1.58	0.10		.5	4		"
817	6/16	0940 / 0943	BROOK	1.0	0.09	0.33	1.57	0.03		.5	5		"
818	6/23	0910 / 0912	MC BRIDE - BROOK	1.0	0.07	0.14	1.50	0.01		.5	4		"

DISCHARGE MEASUREMENTS OF MILL CREEK F112-S

AT NEAR above Big Tujunga Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
819	11/10	1346 / 1354	HYDE	1.5	0.18	0.67	1.58	0.12		.5	4		FC60
820	11/16	1100 / 1110	BOWMAN	2.0	0.24	0.75		0.18		.5	5		FC48
821	11/25	1125 / 1130	HYDE	1.5	0.13	0.85		0.11		.5	4		FC60
822	12/1	1317 / 1322	"	2.0	0.24	0.83	1.60	0.20		.5	5		"
823	12/8	0930 / 0935	"	2.0	0.25	0.72	1.62	0.18		.5	5		"
824	12/15	1024 / 1028	"	1.6	0.23	1.09	1.63	0.25		.5	5		"
825	12/22	0915 / 0920	"	1.5	0.23	1.00		0.23		.5	5		"
826	12/29	1140 / 1146	"	1.6	0.24	1.08	1.62	0.26		.5	5		"
827	1/5	0900 / 0905	"	1.5	0.28	0.89		0.25		.5	5		"
828	1/12	1433 / 1437	"	1.5	0.24	0.92		0.22		.5	4		"
829	1/19	1158 / 1202	"	1.5	0.26	1.00		0.26		.5	4		"
830	1/27	1245 / 1250	"	1.9	0.40	1.20		0.48		.5	5		"
831	2/2	0922 / 0926	"	1.6	0.29	1.03	1.64	0.30		.5	4		"
832	2/9	1042 / 1046	"	1.7	0.31	1.13	1.64	0.35		.5	4	0	"
833	2/16	1020 / 1024	"	1.7	0.36	1.17	1.64	0.42		.5	4	0	"
834	2/23	1300 / 1304	"	1.8	0.33	0.82		0.27		.5	5	0	"
835	3/2	1145 / 1149	"	1.6	0.27	1.04		0.28		.5	4		FC59
836	3/9	1050 / 1054	"	1.7	0.37	0.84	1.65	0.31		.5	4		FC60
837	3/16	1130 / 1134	"	1.6	0.31	1.16	1.64	0.36		.5	4		"
838	3/23	1547 / 1555	FRAZELLE-HYDE	1.6	0.36	0.83	1.62	0.30		.5	6		"
839	3/30	1206 / 1210	HYDE	1.9	0.38	0.74	1.62	0.28		.5	5		"
840	4/6	1130 / 1140	PENTON-HYDE	1.8	0.32	0.91	1.61	0.29		.5	6	0	"
841	4/13	0946 / 0950	HYDE	1.7	0.32	0.88	1.61	0.28		.5	5	0	"
842	4/20	1116 / 1120	"	1.7	0.31	0.94	1.60	0.29		.5	4		"
843	4/27	0905 / 0910	"	1.7	0.32	0.84	1.61	0.27		.5	5		"
844	5/4	1255 / 1300	"	1.7	0.26	0.58	1.60	0.15		.5	5		"
845	5/10	0924 / 0930	"	1.7	0.27	0.74	1.60	0.20		.5	6	0	"
846	5/18	1125 / 1130	"	0.9	0.16	0.62	1.60	0.10		.5	5		"
847	5/25	1115 / 1118	"	0.9	0.16	0.56	1.60	0.09		.5	4	0	"
848	6/1	1230 / 1236	"	0.9	0.19	0.68	1.68	0.13		.5	5		"
849	6/8	1548 / 1555	"	1.0	0.19	0.21	1.65	0.04		.5	4	0	"

DISCHARGE MEASUREMENTS OF PALLETT CREEK F122-S

AT NEAR Big Rock Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
293	3/23	1535 / 1538	WHISLER	1.8	0.17	0.35		0.06		.5	5		FC59
294	3/30	1630 / 1634	"	1.9	0.21	0.38		0.08		.5	5		"
295	4/6	1434 / 1438	"	2.0	0.25	0.56		0.14		.5	5		"
296	4/13	1420 / 1422	"	1.8	0.20	0.65		0.13		.5	5		"
297	4/20	1403 / 1405	"	1.8	0.17	0.59		0.10		.5	5		"
298	4/27	1325 / 1328	"	1.9	0.19	0.58		0.11		.5	5		"
299	5/4	1333 / 1335	"	1.9	0.19	0.47		0.09		.5	5		"
300	5/11	1400 / 1404	"	2.0	0.22	0.41		0.09		.5	5		"
301	5/25	1110 / 1112	MC BRIDE - WHISLER	1.5	0.11	0.36		0.04		.5	4		"

DISCHARGE MEASUREMENTS OF PUDDINGSTONE CREEK F347-S

AT NEAR above Walnut Creek DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1	4/20	1555	SARASUA	90°	V-NOTCH	WEIR	0.37	0.22					
2	4/26	1555 / 1558	"	0.80	0.88	0.75		0.06		.5	5	0	FC49
3	5/5	1035	"	90°	V-NOTCH	WEIR	0.21	0.05					
4	5/12	1435	"	"	"	"	0.21	0.05					
5	5/19	1115	"	"	"	"	0.21	0.05					
6	5/26	1205	"	"	"	"		0.05					
7	6/2	1430	"	"	"	"	0.18	0.04					
8	6/9	1640	"	"	"	"	0.21	0.05					
9	6/16	0905	"	"	"	"	0.16	0.03					
10	6/22	1020	"	"	"	"	0.19	0.04					
11	6/30	1210	"	"	"	"	0.09	0.01					
12	7/7	1445	"	"	"	"	0.16	0.03					
13	7/14	1350	"	"	"	"	0.16	0.03					
14	7/28	1510	"	"	"	"		0.04					
15	8/18	1345	"	"	"	"		0.01					

DISCHARGE MEASUREMENTS OF SAN DIMAS CREEK F101-S

AT NEAR Toe of San Dimas Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
98	10/29	1220 / 1225	SARASUA	1.2	0.33	0.82		0.27		.6	5		FC49
99	11/5	1330 / 1335	"	1.2	0.40	0.67		0.27		.6	5		"
100	4/15	1435 / 1445	"	2.0	1.13	2.92	0.54	3.3		.6	8		FC54

DISCHARGE MEASUREMENTS OF SANDROCK CREEK F299-S

AT NEAR Valyermo Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
244	10/14	1214 / 1216	WHISLER	1.7	0.22	0.20		0.04		.5	5		FC59
245	11/10	1128 / 1130	"	1.7	0.21	0.19		0.04		.5	5		"
246	11/24	1052 / 1055	"	1.7	0.19	0.31		0.06		.5	5		"
247	12/9	1111 / 1115	HOLLERON-WHISLER	1.6	0.19	0.21		0.04		.5	5		"
248	12/22	1338 / 1340	WHISLER	1.8	0.25	0.32		0.08		.5	5		"
249	12/29	1048 / 1052	"	1.5	0.18	0.33		0.06		.5	5		"
250	1/13	1331 / 1333	"	1.2	0.10	0.50		0.05		.5	4		"
251	1/20	1301 / 1303	"	1.2	0.06	0.67		0.04		.5	4		"
252	1/27	1309 / 1311	"	1.2	0.08	0.50		0.04		.5	4		"
253	2/3	1033 / 1035	"	1.2	0.09	0.67		0.06		.5	4		"
254	2/10	1253 / 1255	"	1.2	0.10	0.60		0.06		.5	4		"
255	2/17	1517 / 1519	"	1.2	0.08	0.62		0.05		.5	4		"
256	2/24	1352 / 1354	"	1.2	0.11	0.64		0.07		.5	4		"
257	3/2	1438 / 1440	"	1.2	0.11	0.58		0.07		.5	4		"

DISCHARGE MEASUREMENTS OF SANDROCK CREEK F289-S

AT NEAR Valyermo Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
258	3/9	1500 / 1503	COOK-WHISLER	1.4	0.12	0.58		0.07		.5	4		"
259	3/16	1350 / 1352	WHISLER	1.3	0.13	0.69		0.09		.5	4		"
260	3/23	1446 / 1448	"	1.4	0.13	0.69		0.09		.5	5		"
261	3/30	1530 / 1533	"	1.4	0.12	0.67		0.08		.5	5		"
262	4/6	1352 / 1354	"	1.5	0.13	0.62		0.08		.5	5		"
263	4/13	1333 / 1335	"	1.5	0.14	0.64		0.09		.5	4		"
264	4/20	1335 / 1337	"	1.5	0.13	0.69		0.09		.5	4		"
265	4/27	1255 / 1257	"	1.6	0.18	0.61		0.11		.5	5		"
266	5/4	1300 / 1303	"	1.6	0.17	0.47		0.08		.5	5		"
267	5/11	1303 / 1306	"	1.4	0.13	0.54		0.07		.5	5		"
268	5/25	1006 / 1008	MC BRIDE - WHISLER	1.4	0.11	0.36		0.04		.5	5		"
269	6/8	1248 / 1250	WHISLER	1.3	0.09	0.44		0.04		.5	4		"
270	7/5	1310 / 1312	MC BRIDE	0.60	0.03	0.33		0.01		.5	3		FC60

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER F208-S

AT NEAR below Morris Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
51	10/22	1400 / 1410	HOLLERON	CHANNELS				1.2		.5	9		FC48

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER F208-S

AT NEAR below Morris Dam DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
52	2/16	1406 / 1412	BROOK-WOOD	1.5	0.82	1.34		1.1		.6	6	0	FC53

DISCHARGE MEASUREMENTS OF SAN GABRIEL - MAIN SPREADING CANAL F100-S

AT NEAR Mouth of San Gabriel Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
155	10/15	1042 / 1100	BOWMAN	13.4	8.24	0.95		7.8		.5 / .6	15	0	FC6
156	11/5	1250 / 1302	HOLLERON	10.3	6.98	1.25		8.7		.6	12	0	FC56
157	12/23	0930 / 0940	"	12.0	6.73	1.11		7.5		.6	12	0	"
158	1/7	1305 / 1315	"	10.5	6.72	1.06		7.1		.6	10	0	"
159	1/21	1600 / 1614	"	14.4	11.5	1.20		13.8		.6	15	0	"
160	1/28	1530 / 1544	"	14.5	12.9	1.46		18.9		.6	14	0	"
161	2/4	1530 / 1544	"	16.2	18.1	1.87	1.49	33.8		.6	15	0	"
162	2/25	1408 / 1422	"	14.8	14.4	1.50	1.20	21.5		.6	15	0	"
163	3/10	0903 / 0924	BOWMAN	16.2	16.0	1.45		23.2		.6	18	0	FC6
164	3/17	0948 / 1024	COOK-BOWMAN	16.5	16.8	1.39		23.3		.5 / .6	18	0	"
165	3/31	0946 / 1000	HOLLERON	11.5	10.6	1.53		16.2		.6	13	0	FC56
166	4/14	1412 / 1424	"	10.0	4.31	1.00		4.3		.6	11	0	FC48
167	4/28	1508 / 1520	"	11.0	8.13	1.20	1.08	9.8		.6	12	0	FC56
168	6/16	1140	BOWMAN	RECTANGULAR WEIR				3.7					

DISCHARGE MEASUREMENTS OF SAN GABRIEL - MAIN SPREADING Canal F100-S

AT NEAR Mouth of San Gabriel Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
169	11/3	1326 / 1333	WOOD	8.0	4.53	0.80		3.6		.6	7		FC53
170	11/17	1412 / 1421	"	9.0	2.75	0.47		1.3		.5	10		"
171	11/17	1450 / 1501	"	14.5	23.6	1.47		34.8		.6	10		FC57
172	12/1	1434 / 1447	"	11.0	9.90	1.41		13.9		.6	12		"
173	12/8	1540 / 1554	"	10.0	8.91	1.27		11.3		.6	11		"
174	12/15	1326 / 1342	"	12.0	7.40	1.43		10.6		.5 / .6	13		"
175	12/22	1615 / 1630	"	13.3	7.87	1.50		11.8		.5 / .6	13		"
176	12/29	1447 / 1501	"	13.0	7.42	1.46		10.8		.5 / .6	14		"
177	1/5	1553 / 1606	"	13.2	7.18	1.34		9.6		.5 / .6	14		"
178	1/14	1641 / 1656	FALCONE	11.2	10.4	0.85		8.9		.6	10		FC24
179	1/19	1548 / 1600	WOOD	12.5	7.84	0.81		6.4		.5 / .6	13		FC57
180	1/26	1106 / 1117	WOOD-BROOK	13.0	9.01	1.56		14.1		.5 / .6	14		"
181	2/2	1550 / 1608	WOOD	13.3	8.78	1.59	1.00	13.9		.5 / .6	14		"
182	2/9	1350 / 1407	"	11.5	11.7	1.01	0.96	11.9		.6	14		"
183	2/16	1325 / 1339	BROOK-WOOD	11.1	9.95	1.31	0.85	7.6		.5 / .6	15		"
184	2/24	1433 / 1450	WOOD	12.0	8.18	0.85	0.85	6.9		.6	13		"
185	3/2	1436 / 1445	FALCONE-WOOD	11.3	11.2	0.55	0.92	6.2		.6	8		FC53
186	3/9	1346 / 1407	FRAZELLE-WOOD	10.5	5.20	1.42	0.95	7.4		.5 / .6	13		"
187	3/16	1536 / 1550	" "	9.5	4.44	1.51	0.92	6.7		.5 / .6	13		"
188	3/23	1518 / 1532	WOOD	10.9	5.02	1.08	0.99	5.4		.5 / .6	12		"
189	3/30	1446 / 1504	PETERSEN-WOOD	10.2	4.66	1.18	0.99	5.4		.5 / .6	13		FC57

DISCHARGE MEASUREMENTS OF SAN JOSE CREEK F306-S

AT NEAR Nogales Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
31	10/22	1425 / 1440	SARASUA	8.0	4.18	0.96		4.0		.6	12		FC49
32	11/19	0816 / 0828	"	11.0	3.89	1.57		6.1		.6	12		"
33	12/9	1601 / 1613	MC BRIDE	6.0	2.60	1.19		3.1		.6	8		FC33
34	12/17	1105 / 1115	SARASUA	9.5	3.01	1.42		4.3		.6	12		FC49
35	1/13	1600 / 1610	"	10.0	6.09	2.25		13.7		.6	12		"
36	2/2	1535 / 1555	"	12.0	8.48	1.63	0.53	13.8		.6	14		FC54
37	2/4	1249 / 1302	MC BRIDE	14.0	4.99	1.90	0.69	9.5		.5 / .6	10		FC33
38	2/17	1555 / 1605	SARASUA	14.5	5.70	2.18		12.4		.6	17		FC49
39	2/25	0830 / 0845	"	9.0	3.29	1.82	0.26	6.0		.6	13	0	"
40	3/2	1610 / 1623	"	14.0	5.57	2.46		13.7		.6	16	0	"
41	3/10	1017 / 1025	"	14.0	3.64	1.48		5.4		.6	17	0	"
42	3/17	0855 / 0905	"	14.2	4.08	1.40		5.7		.6	17	0	"
43	3/31	1530 / 1540	SARASUA-COOK	12.0	5.13	1.83		9.4		.6	14	0	FC54
44	4/7	0755 / 0805	SARASUA	12.8	5.14	1.89		9.7		.6	15	0	FC49
45	4/21	0920 / 0933	"	7.0	3.11	2.31		7.2		.6	15	0	"
46	5/12	1530 / 1542	"	14.0	3.88	1.65		6.4		.6	16	0	"
47	5/19	1005 / 1018	"	11.5	2.52	1.19		3.0		.6	17	0	"
48	6/1	1614 / 1628	MC BRIDE	11.0	3.47	1.50		5.2		.5 / .6	10		"
49	6/16	0810 / 0823	SARASUA	9.5	2.86	1.22		3.5		.6	15	0	"
50	7/7	1540 / 1600	"	7.3	2.64	1.25		3.3		.6	15	0	"
51	7/14	1535 / 1555	"	8.2	3.40	1.53		5.2		.6	15	0	"
52	7/28	1530 / 1545	"	7.5	2.68	1.50		4.0		.6	16	0	"
53	8/4	1052 / 1102	MC BRIDE	6.0	1.10	0.63		0.09		.5	8	0	"
54	8/12	0705 / 0713	SARASUA	7.0	2.17	1.06		2.3		.6	12	0	"
55	8/19	0700 / 0715	"	7.0	2.47	1.29	0.11	3.2		.6	12	0	"
56	8/26	0715 / 0728	"	6.5	2.67	1.57	0.17	4.2		.6	14	0	"
57	9/1	1412 / 1422	MC BRIDE	4.5	1.15	0.85		0.98		.5	7		"
58	9/8	1525 / 1530	SARASUA	5.1	2.00	1.00	0.13	2.0		.6	11	0	"
59	9/15	0735 / 0745	"	12.0	3.16	0.73	0.11	2.3		.6	13	0	"

DISCHARGE MEASUREMENTS OF SAN JOSE CREEK F306-S

AT OR NEAR Nogales Avenue DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
60	10/20	0810 / 0822	SARASUA	7.0	2.56	1.60	0.22	4.1		.6	13		FC49
61	11/10	0715 / 0723	"	6.0	3.43	1.81	0.24	6.2		.6	8		"
62	11/23	1500 / 1515	MC BRIDE	11.0	4.85	1.77	0.32	8.6		.5 / .6	12		FC33
63	11/29	1240 / 1252	SARASUA	10.0	3.56	2.08	0.30	7.4		.6	13		FC49
64	12/15	0902 / 0915	"	6.5	4.01	2.00	0.32	8.0		.6	12		"
65	1/6	0725 / 0737	"	6.0	2.88	0.63	0.25	4.7		.6	10		"
66	1/19	1615 / 1625	"	6.0	2.74	1.42	0.15	3.9		.6	12		"
67	2/2	0855 / 0905	"	11.0	2.87	1.71	0.17	4.9		.6	13		"
68	2/9	0840 / 0850	"	9.0	2.24	1.79	0.09	4.0		.6	14		"
69	3/2	0755 / 0805	"	11.0	3.12	1.70	0.12	5.3		.6	14		"
70	3/9	0845 / 0855	"	5.5	1.74	1.20	0.01	2.1		.6	11	0	"
71	3/22	1726 / 1734	SARASUA-PETERSEN	10.0	3.61	1.58	0.13	5.7		.6	15	0	"
72	4/5	0840 / 0850	SARASUA-WALTER	10.0	2.68	1.45	0.10	3.9		.6	12	0	"
73	4/13	0835 / 0840	SARASUA	3.2	0.42	0.81	-0.30	0.34		.6	8	0	"
74	4/20	0800 / 0810	"	4.0	0.87	1.00	-0.30	0.87		.6	9	0	"
75	4/26	1620 / 1625	"	1.8	0.18	0.78		0.14		.6	7	0	"
76	5/11	0815 / 0825	"	7.5	1.67	1.20	0.11	2.0		.6	10	0	"
77	5/26	0825 / 0833	"	7.0	1.53	1.18	0.06	1.8		.6	11	0	"
78	6/1	0810 / 0820	"	7.0	2.11	1.09	0.07	2.3		.6	9	0	"
79	6/7	1500 / 1505	"	4.2	0.90	1.22	-0.03	1.1		.6	10	0	"
80	6/15	0830 / 0840	"	7.0	2.29	1.00	0.13	2.3		.6	12	0	"
81	6/22	0820 / 0830	"	5.5	1.77	1.47	0.12	2.6		.6	12	0	"
82	7/6	0830 / 0842	MC BRIDE	6.2	1.66	1.33		2.2		.5 / .6	9		"
83	7/13	0818 / 0830	"	6.6	2.08	1.06		2.2		.5 / .6	10		"
84	7/20	0813 / 0825	"	6.2	1.23	1.22		1.5		.5 / .6	9		"
85	7/27	1658 / 1708	"	7.2	2.48	1.60		3.3		.5 / .6	9		"
86	8/3	1425 / 1430	SARASUA	3.0	0.57	0.86	0.02	0.49		.6	7	0	"
87	8/10	1320 / 1335	"	3.0	0.48	0.81		0.39		.6	7	0	"
88	8/23	1540 / 1545	"	2.5	0.37	0.62	-0.08	0.23		.6	6	0	"
89	9/7	1625 / 1635	"	3.0	0.87	0.75	0.02	0.65		.6	7	0	"
90	9/21	0952 / 0955	"	2.0	1.14	1.84	0.18	2.1		.6	5	0	"

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK F272-S

AT OR NEAR above Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
659	3/24	1250 / 1255	SJOSTEDT	2.5	0.79	1.24		0.98		.6	6		FC50
660	3/31	1440 / 1450	"	3.0	1.08	0.83		0.90		.6	5		"
661	4/7	1250 / 1300	"	2.5	0.70	1.24		0.87		.6	6		"
662	4/14	1525 / 1530	"	2.5	0.77	1.21		0.93		.5 / .6	6		"
663	4/21	1405 / 1415	"	2.5	0.67	1.64		1.1		.5	6		"
664	4/28	0820 / 0830	"	2.5	0.47	1.49		0.70		.5	6		FC47
665	5/5	1545 / 1555	"	4.0	0.71	1.97		1.4		.5	5		FC50
666	5/12	1430 / 1440	"	3.0	0.68	1.93		1.3		.5	7		"
667	5/19	1500 / 1510	"	3.0	0.69	1.64		1.1		.5	7		"
668	5/26	1435 / 1445	"	2.0	0.40	2.12		0.85		.5	6		"
669	6/2	1545 / 1550	"	2.0	0.27	1.70		0.46		.5	5		"
670	6/9	0840 / 0850	"	2.5	0.51	2.16		1.1		.5	6		"
671	6/16	1530 / 1540	"	3.0	0.62	1.79		1.1		.5	7		"
672	6/23	1535 / 1545	"	4.0	0.50	1.54		0.77		.5	6		"
673	6/30	1245 / 1250	"	4.0	0.52	1.84		0.96		.5	6		"
674	7/7	1600 / 1610	"	4.0	0.53	1.65		0.86		.5	6		"
675	7/15	1350 / 1410	WALTER	3.4	0.45	1.58		0.71		.5	8		"
676	7/21	1537 / 1548	"	3.3	0.46	1.83		0.84		.5	7		"
677	7/28	1412 / 1424	"	4.7	0.86	1.07		0.86		.5	9		"
678	8/4	1520 / 1530	"	4.5	0.68	1.04		0.71		.5	7		"
679	8/11	1431 / 1438	"	3.6	0.78	1.02		0.80		.5 / .6	7		"
680	8/18	1356 / 1400		3.6	0.68	0.96		0.65		.5	6		"
681	8/25	1447 / 1455	PETERSEN-WALTER	3.3	0.72	1.11		0.80		.5 / .6	7		"
682	9/1	1430 / 1440	PETERSON	4.5	1.06	0.76		0.81		.5	7		"
683	9/8	1510 / 1515	WALTER	3.2	0.66	1.09		0.72		.5	7		"
684	9/15	1325 / 1330	WALTER-SJOSTEDT	4.5	0.64	1.25		0.80		.5	7		"
685	9/22	1400 / 1410	" "	4.9	0.56	0.77		0.43		.5	7		"
686	9/29	1415 / 1425	" "	4.0	0.70	1.16		0.81		.5	8		"

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK F272-S

AT OR NEAR above Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
636	10/1	1340 / 1350	SJOSTEDT	2.5	0.62	1.61		1.0		.5	6		FC50
637	10/15	1230 / 1240	"	4.0	1.06	1.22		1.3		.5	6		"
638	10/22	1440 / 1450	"	3.0	0.74	1.27		0.94		.5	7		"
639	10/29	1420 / 1425	"	4.0	0.91	1.10		1.0		.5	6		"
640	11/5	1325 / 1330	"	3.0	0.73	1.51		1.1		.5	5		"
641	11/12	1400 / 1410	"	3.0	0.63	1.51		0.95		.5	7		"
642	11/19	1220 / 1238	"	3.0	0.59	1.47		0.87		.5	7		"
643	11/25	1540 / 1550	"	3.3	0.63	1.59		1.0		.5	8		"
644	12/3	1245 / 1255	"	3.0	0.61	1.49		0.91		.5	7		"
645	12/10	1130 / 1140	"	3.5	0.81	1.23		1.0		.5	8		"
646	12/17	1315 / 1325	"	3.5	0.68	1.25		0.85		.5	8		"
647	12/23	1235 / 1245	"	3.5	0.78	1.01		0.79		.5	8		"
648	12/30	1600 / 1610	"	2.5	0.66	1.35		0.89		.5	6		"
649	1/7	1620 / 1630	"	3.0	0.48	1.83		0.88		.5	7		"
650	1/21	1425 / 1435	"	4.0	0.78	1.28		1.0		.5	9		"
651	1/28	1345 / 1355	"	4.0	0.60	1.28		0.77		.5	6		"
652	2/4	1330 / 1340	"	4.0	0.74	1.32		0.98		.5	6		"
653	2/11	1600 / 1620	COOK-SJOSTEDT	5.6	0.91	1.08		0.98		.5	7		"
654	2/18	1430 / 1435	SJOSTEDT	3.0	0.60	1.52		0.91		.5	7		"
655	2/25	1510 / 1520	"	3.0	0.62	1.50		0.93		.5	7		"
656	3/3	1415 / 1425	"	4.0	1.24	0.73		0.90		.5 / .6	6		"
657	3/10	1120 / 1130	"	2.5	0.86	1.05		0.90		.6	6		"
658	3/17	1410 / 1415	"	2.5	0.73	1.37		1.0		.6	6		"

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK F272-S

AT OR NEAR above Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
687	10/6	1205 / 1215	SJOSTEDT	3.0	0.53	1.24		0.66		.5	5		FC50
688	10/13	1430 / 1440	"	3.0	0.89	0.92		0.82		.6	7		"
689	10/20	1300 / 1310	"	3.0	0.68	1.09		0.74		.5	7		"
690	10/27	1400 / 1410	"	3.5	0.75	0.97		0.73		.5	6		"
691	11/10	1610 / 1620	"	3.0	0.42	1.69		0.71		.5	7		"
692	11/17	1400 / 1410	"	4.5	0.60	1.07		0.64		.5	9		"
693	11/23	1340 / 1350	"	3.5	0.57	1.18		0.67		.5	8		"
694	12/1	1500 / 1510	"	2.5	0.55	1.22		0.67		.5	6		"
695	12/8	1405 / 1415	"	2.5	0.57	1.14		0.65		.5	7		"
696	12/15	1540 / 1545	"	2.5	0.60	1.15		0.69		.5	6		"
697	12/22	1435 / 1445	"	2.5	0.57	1.09		0.62		.5	6		"
698	12/30	1140 / 1150	"	2.5	0.61	1.07		0.65		.5	7		"
699	1/5	0845 / 0855	"	2.5	0.59	1.05		0.62		.5	7		"
700	1/12	0910 / 0920	"	2.5	0.58	1.00		0.58		.5	7		"
701	1/19	0900 / 0910	"	2.5	0.38	1.32		0.50		.5	6		"
702	2/2	0845 / 0855	"	2.0	0.50	1.10		0.55		.5	6		"
703	2/16	1255 / 1305	"	2.5	0.40	1.20		0.48		.5	6		"
704	2/23	1245 / 1250	"	2.5	0.44	1.05		0.46		.5	6		"
705	3/2	0850 / 0855	SJOSTEDT-PENTON	2.5	0.45	1.33		0.60		.5	6		"
706	3/9	1525 / 1535	SJOSTEDT	2.0	0.37	1.30		0.48		.5	6		"
707	3/16	1400 / 1405	"	2.0	0.54	1.06		0.57		.5	6		"
708	3/23	1200 / 1210	"	2.0	0.49	1.24		0.61		.5 / .6	6		"
709	3/30	1330 / 1340	"	2.0	0.40	1.50		0.60		.5	5		"

DISCHARGE MEASUREMENTS OF SANTA MONICA CREEK F272-S

AT NEAR above Rustic Canyon DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	B. HT. CHANGE TOTAL	METER NO.
710	4/6	1330 / 1340	SJOSTEDT	2.0	0.36	1.56		0.56		.5	6		FC50
711	4/13	1300 / 1310	"	2.5	0.48	1.12		0.54		.5	6		"
712	4/27	1440 / 1445	"	2.5	0.39	1.46		0.57		.5	6		"
713	5/4	1240 / 1250	"	2.5	0.40	1.52		0.61		.5	6		"
714	5/11	1115 / 1120	"	2.5	0.36	1.36		0.49		.5	6		"
715	5/18	1325 / 1330	"	2.5	0.38	1.24		0.47		.5	6		"
716	5/25	0845 / 0850	"	2.5	0.38	1.34		0.51		.5	6		"
717	6/8	0835 / 0845	"	2.5	0.55	1.18		0.65		.5	6		"
718	6/15	1555 / 1602	WALTER	4.2	0.69	0.87		0.60		.5	6		"
719	6/22	1455 / 1503	"	3.6	0.71	0.86		0.61		.5	7		"
720	6/29	0955 / 1003	"	3.0	0.68	0.87		0.59		.5	7		"
721	7/5	1540 / 1550	"	2.4	0.44	1.14		0.50		.5 .6	6		"
722	7/13	1620 / 1630	SJOSTEDT	2.5	0.45	1.09		0.49		.5	6		"
723	7/20	1120 / 1125	"	2.5	0.45	1.09		0.49		.5	6		"
724	7/27	1040 / 1045	"	2.5	0.45	1.11		0.50		.5	6		"
725	8/3	1417 / 1435	FALCONE-SJOSTEDT	3.0	0.62	1.06		0.66		.5	7		"
726	8/10	1445 / 1455	SJOSTEDT	2.0	0.40	1.20		0.48		.5	5		"
727	8/17	1445 / 1455	"	2.5	0.80	0.71		0.57		.5	6		"
728	8/24	1050 / 1055	"	2.5	0.49	1.06		0.52		.5	6		"
729	8/31	1400 / 1405	"	2.0	0.37	1.35		0.50		.5	5		"
730	9/7	1610 / 1615	"	2.0	0.38	1.16		0.44		.5	5		"
731	9/13	1315 / 1325	"	2.0	0.29	1.31		0.38		.5	5		"
732	9/20	1420 / 1430	PETERSEN-SJOSTEDT	2.5	0.34	1.38		0.47		.5	6		"

DISCHARGE MEASUREMENTS OF VALYERMO RANCH SPRINGS CREEK F291-S

AT NEAR Valyermo Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	B. HT. CHANGE TOTAL	METER NO.
318	10/14	1220 / 1222	WHISLER	1.5	0.17	0.30		0.05		.5	4		FC59
319	11/10	1143 / 1145	"	1.7	0.24	0.38		0.09		.5	5		"
320	11/24	1042 / 1044	"	1.8	0.26	0.38		0.10		.5	5		"
321	12/9	1128 / 1133	HOLLERON-WHISLER	2.0	0.31	0.38		0.12		.5	6		"
322	12/22	1322 / 1326	WHISLER	1.8	0.34	0.38		0.13		.5	5		"
323	12/29	1040 / 1044	"	1.8	0.31	0.42		0.13		.5	5		"
324	1/13	1353 / 1355	"	1.8	0.34	0.47		0.16		.5	5		"
325	1/20	1313 / 1316	"	1.8	0.32	0.32		0.12		.5	6		"
326	1/27	1325 / 1328	"	1.8	0.30	0.40		0.12		.5	5		"
327	2/3	1038 / 1040	"	1.8	0.32	0.38		0.12		.5	5		"
328	2/10	1307 / 1310	"	1.8	0.30	0.37		0.11		.5	5		"
329	2/17	1530 / 1534	"	1.8	0.31	0.32		0.10		.5	5		"
330	2/24	1510 / 1513	"	1.8	0.31	0.39		0.12		.5	5		"
331	3/2	1457 / 1500	"	1.8	0.31	0.42		0.13		.5	5		"
332	3/9	1507 / 1512	COOK-WHISLER	1.8	0.27	0.37		0.10		.5	5		"
333	3/16	1512 / 1515	WHISLER	1.8	0.32	0.50		0.16		.5	5		"
334	3/23	1450 / 1454	"	1.7	0.27	0.44		0.12		.5	5		"
335	3/30	1540 / 1543	"	1.6	0.22	0.36		0.08		.5	5		"
336	4/6	1358 / 1400	"	1.5	0.16	0.38		0.06		.5	4		"
337	4/13	1345 / 1348	"	1.6	0.16	0.31		0.05		.5	5		"
338	4/20	1345 / 1347	"	1.4	0.11	0.36		0.04		.5	5		"
339	4/27	1303 / 1305	"	1.5	0.16	0.50		0.08		.5	4		"
340	5/4	1305 / 1307	"	1.5	0.13	0.38		0.05		.5	4		"
341	5/11	1315 / 1317	"	1.3	0.08	0.38		0.03		.5	4		"
342	5/25	1013 / 1015	MC BRIDE-WHISLER	1.4	0.09	0.33		0.03		.5	5		"

DISCHARGE MEASUREMENTS OF VALYERMO RANCH SPRINGS CREEK F291-S

AT NEAR Valyermo Highway DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	B. HT. CHANGE TOTAL	METER NO.
343	11/16	1126 / 1130	WHISLER	2.3	0.46	0.11		0.05		.5	6		FC59
344	11/25	1040 / 1043	"	2.4	0.45	0.16		0.07		.5	5		"
345	12/1	1205 / 1210	"	2.4	0.53	0.13		0.07		.5	6		"
346	12/7	1058 / 1100	"	2.4	0.47	0.11		0.05		.5	5		"
347	12/14	1353 / 1355	"	2.5	0.50	0.14		0.07		.5	5		"
348	12/21	1122 / 1124	"	2.5	0.52	0.15		0.08		.5	5		"
349	12/28	1026 / 1028	"	2.4	0.49	0.14		0.07		.5	5		"
350	1/4	1310 / 1314	"	2.4	0.49	0.14		0.07		.5	5		"
351	1/11	1313 / 1315	"	2.4	0.48	0.15		0.07		.5	5		"
352	1/17	1245 / 1247	"	2.4	0.44	0.16		0.07		.5	5		"
353	1/24	1310 / 1312	"	2.4	0.46	0.13		0.06		.5	5		"
354	2/1	1348 / 1351	"	2.4	0.46	0.17		0.08		.5	5		"
355	2/8	1243 / 1245	"	2.4	0.48	0.15		0.07		.5	5		"
356	2/15	1245 / 1248	"	2.4	0.46	0.17		0.08		.5	5		"
357	2/21	1130 / 1132	"	2.4	0.49	0.12		0.06		.5	5		"
358	3/8	1040 / 1042	"	2.4	0.43	0.16		0.07		.5	5		"
359	3/15	1346 / 1348	WALTER-WHISLER	2.5	0.40	0.13		0.05		.5	5		"
360	3/22	1350 / 1355	PENTON-WHISLER	2.4	0.41	0.15		0.06		.5	5		"
361	3/29	1107 / 1110	FRAZELLE-WHISLER	2.4	0.42	0.14		0.06		.5	5		"
362	4/5	1248 / 1250	WHISLER	2.0	0.28	0.09		0.03		.5	5		"
363	4/11	1348 / 1350	"	2.0	0.28	0.07		0.02		.5	5		"

RISING WATER AT WHITTIER NARROWS

THIS IS A COMPUTED DISCHARGE. DURING PERIODS OF HIGH FLOW SUCH AS STORMS AND OCCASIONALLY DURING THE DELIVERY OF IMPORTED WATER, THE VALUES ARE ESTIMATED. FLOWS OF IMPORTED WATER AFFECT THE AMOUNT OF RISING WATER THROUGH THE NARROWS. FROM AUGUST 1954 THROUGH APRIL 1957 AND IN OCTOBER AND NOVEMBER, 1960 SUCH DELIVERIES WERE MADE TO LIVE OAK WASH, VIA PUDDINGSTONE DAM AND WALNUT WASH. BEGINNING DECEMBER 3, 1957 THEY WERE MADE TO THE SAN GABRIEL RIVER BELOW SAN BERNARDINO ROAD (STA. M335-R). DELIVERIES TO THE RIO HONDO WERE MADE TO THE ALHAMBRA WASH NEAR RUSH STREET (STA. M340-R) BEGINNING JANUARY 20, 1958. BOTH OF THE LATTER TWO CONTINUED THROUGH THE PERIOD OF THIS REPORT.

THE RISING WATER DISCHARGE IS COMPUTED BY THE FORMULA:

$$M = A + B - (C + D) + G + H - (I + J)$$

M = TOTAL OF RISING WATER AT WHITTIER NARROWS

A = COMPUTED FLOW OF MISSION CREEK AT SAN GABRIEL BOULEVARD, STA. F83-R

B = MEASURED FLOW OF RIO HONDO AT MAXIMUM RISING WATER

C = MEASURED FLOW OF THE RIO HONDO ABOVE RISING WATER, STA. E326-R

D = ADDITIONAL FLOW AT VARIOUS LOCATIONS

G = MEASURED FLOW OF SAN GABRIEL RIVER ABOVE PARKWAY BRIDGE, STA. F86-S

H = DIVERSION ABOVE "G"

I = MEASURED FLOW OF SAN GABRIEL RIVER ABOVE RISING WATER

J = ADDITIONAL FLOW AT VARIOUS LOCATIONS

FOR THE PURPOSE OF DETERMINING THE MONTHLY AND YEARLY RUNOFF, STRAIGHT LINE VARIATION IN FLOW BETWEEN MEASUREMENTS HAS BEEN ASSUMED. INCLUDED HEREWITH IS THE GRAPH SHOWING THE MEAN MONTHLY RISING WATER SINCE JANUARY 1923.

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER F86-S

~~NEAR~~ above Parkway Bridge DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1205	12/1	1257 / 1317	WADDICOR	21.0	8.86	1.11		9.8		.5 / .6	16		FC62
1206	12/3	1040 / 1105	ROY	15.5	7.06	1.22		8.6		.5 / .6	17		FG51
1207	12/10	1510 / 1528	WADDICOR	CHANNELS				7.8		.5 / .6	21		FC52
1208	12/16	1445 / 1500	"	10.9	3.04	1.25		3.8		.5	12		"
1209	12/22	1537 / 1547	"	7.9	2.94	1.63		4.8		.6	10		"
1210	1/6	1430 / 1500	"	31.6	10.5	1.39		14.6		.6	18		"
1211	1/13	1456 / 1520	"	CHANNELS				18.1		.6	23		FC37
1212	1/20	1305 / 1340	"	86.4	91.4	2.24		204.		.6	20		"
1213	1/28	1350 / 1418	ROY-PETERSEN	CHANNELS				182.		.6	29		FC51
1214	2/3	1325 / 1348	WADDICOR	84.5	80.1	1.84		147.		.6	19		FC37
1215	2/9	1230 / 1242	"	22.2	18.1	1.57		28.4		.6	13		"
1216	2/12	1087 / 1054	ROY-WALTON	113.5	91.1	1.90		173.		.5 / .6	26		FC51
1217	2/18	1310 / 1335	ROY-COOK	132.5	99.9	1.77		177.		.5 / .6	29		"
1218	2/25	1420 / 1500	ROY	CHANNELS				25.9		.5 / .6	36		FC48
1219	2/26	0930 / 1016	"		"			24.7		.5 / .6	45		"
1220	2/27	0950 / 1022	"		"			25.5		.5 / .6	37		"
1221	2/28	1140 / 1220	"		"			21.9		.5 / .6	29		"
1222	3/3	1612 / 1640	WADDICOR		"			22.1		.6	21		FC52
1223	3/10	1554 / 1610	WADDICOR-HOLLERON		"			18.1		.6	18		"
1224	3/24	1643 / 1657	WADDICOR	21.8	6.06	1.30		7.9		.6	13		"
1225	3/30	1355 / 1425	WADDICOR-BOWMAN	99.0	76.1	1.88		143.		.6	22		FC37
1226	4/8	1630 / 1640	ROY	14.0	5.59	1.23		6.9		.5 / .6	9		FC52
1227	4/14	1445 / 1510	"	13.0	3.35	0.86		2.9		.5 / .6	11		"
1228	4/20	1415 / 1425	ROY	14.5	4.01	1.00		4.0		.5 / .6	11		FC52
1229	4/29	0840 / 0905	"	44.5	12.6	1.22		15.4		.5 / .6	25		"
1230	5/4	1525 / 1600	"	CHANNELS				12.4		.5 / .6	24		"
1231	5/11	1506 / 1533	"		"			9.2		.5 / .6	21		"
1232	5/19	1446 / 1456	"	8.0	1.72	1.10		1.9		.5 / .6	9		"
1233	5/26	1418 / 1424	WALTER-ROY	4.7	0.99	1.62		1.6		.5	6		"
1234	6/2	1511 / 1517	ROY	4.8	1.00	1.40		1.4		.5 / .6	6		"
1235	6/9	1450 / 1459	"	6.8	1.47	0.88		1.3		.5 / .6	8		"
1236	6/16	1455 / 1501	"	5.0	1.04	0.96		1.0		.5	6		"
1237	6/23	1346 / 1352	"	3.5	0.77	0.99		0.76		.5	6		"
1238	6/30	1345 / 1352	"	5.0	0.89	0.83		0.74		.5	6		"
1239	7/7	1445 / 1447	BROOK	3.1	0.54	0.80		0.43		.5 / .6	7		"
1240	7/14	1420 / 1428	ROY	CHANNELS				0.64		.5	8		"
1241	7/21	1334 / 1340	"	2.5	0.46	1.26		0.58		.5	6		"
1242	7/28	1400 / 1406	"	3.0	0.50	1.12		0.56		.5	7		"
1243	8/4	1345 / 1352	"	2.0	0.29	1.31		0.38		.5	5		"
1244	8/11	1345 / 1354	"	3.0	0.39	1.03		0.40		.5	7		"
1245	8/18	1358 / 1403	"	2.5	0.40	0.95		0.38		.5	5		"
1246	8/25	1320 / 1322	"	1.0	0.05	0.60		0.03		.5	3		"
1247	9/1	1448 / 1450	"	2.0	0.23	0.87		0.20		.5	5		"
1248	9/8	1300 / 1304	"	3.0	0.36	0.94		0.34		.5	4		"
1249	9/15	1340 / 1344	"	3.0	0.45	0.33		0.15		.5	4		"
1250	9/22	1430 / 1433	"	3.5	0.53	0.70		0.37		.5	5		"
1251	9/23	0905 / 0910	"	4.0	0.64	0.45		0.29		.5	5		"
1252	9/29	1420 / 1423	"	2.5	0.32	0.53		0.17		.5	4		"

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER F86-S

~~AT~~ NEAR above Parkway Bridge DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
1253	10/7	0910 / 0918	ROY	5.5	0.91	0.31		0.28		.5	7		FC52
1254	10/13	1425 / 1430	"	3.0	0.55	1.00		0.55		.5	4		"
1255	10/20	1430 / 1433	"	3.0	0.34	0.09		0.03		.5	4		"
1256	10/27	1442 / 1445	"	4.0	0.48	0.46		0.22		.5	5		"
1257	11/10	1450 / 1502	"	8.0	5.98	1.57		9.4		.6	9		FC51
1258	11/21	1525 / 1536	"	15.4	8.50	1.10		9.4		.6	9		"
1259	11/23	1410 / 1430	"		CHANNELS			8.0		.5 / .6	24		FC52
1260	12/1	1423 / 1438	"		"			8.1		.5 / .6	16		"
1261	12/16	0858 / 0910	CONNER-ROY	24.5	8.46	1.50		12.7		.5 / .6	14		FC51
1262	12/16	1500 / 1515	" "	25.0	8.92	1.40		12.5		.5 / .6	15		"
1263	12/19	0830 / 0843	ROY	23.6	8.25	1.36		11.2		.6	14		FC52
1264	1/4	1522 / 1542	"		CHANNELS			12.4		.5 / .6	21		FC51
1265	1/6	1000 / 1018	"		"			11.2		.5 / .6	18		"
1266	1/12	1330 / 1344	"		"			3.5		.5 / .6	14		FC52
1267	3/3	0940 / 0952	"	20.2	7.45	1.32		9.8		.5 / .6	12		FC51
1268	3/6	1058 / 1110	"	23.1	9.11	1.36		12.4		.5 / .6	13		"
1269	3/13	0954 / 1006	"	28.2	7.48	1.16		8.7		.5 / .6	16		"
1270	3/17	0915 / 0930	"		CHANNELS			11.3		.5 / .6	16		"
1271	4/18	1345 / 1351	"	6.0	1.48	1.76		2.6		.5 / .6	7		FC52
1272	4/18	1415 / 1427	"		CHANNELS			3.2		.5 / .6	13		"
1273	4/20	1420 / 1432	"		"			3.4		.5 / .6	14		"
1274	4/21	1454 / 1456	ROY-BROOK	5.4	2.26	0.97		2.2		.5 / .6	7		"
1275	4/21	1508 / 1511	" "	5.5	1.85	1.46		2.7		.5 / .6	7		"
1276	4/21	1517 / 1526	" "		CHANNELS			2.8		.5 / .6	12		"
1277	5/4	1448 / 1458	ROY		"			3.4		.5 / .6	11		"
1278	5/11	1440 / 1448	"		"			2.3		.5 / .6	9		"
1279	5/18	1428 / 1438	ROY-BITTEN		"			2.9		.5 / .6	9		"
1280	5/24	1435 / 1443	ROY	8.0	1.98	1.36		2.7		.5 / .6	9		"
1281	6/8	1544 / 1555	"		CHANNELS			2.8		.5 / .6	12		"
1282	6/15	1530 / 1540	"		"			0.76		.5 / .6	9		"
1283	6/22	1510 / 1515	"	4.0	0.80	0.78		0.62		.5	5		"
1284	6/29	1410 / 1414	"	4.0	0.63	0.78		0.49		.5	5		"
1285	7/6	0845 / 0849	"	4.0	0.71	0.83		0.59		.5	5		"
1286	7/13	1455 / 1456	"	3.0	0.46	0.81		0.37		.5	4		"
1287	7/20	1438 / 1443	"	3.0	0.33	0.82		0.27		.5	4		FC51
1288	7/27	1350 / 1354	"	3.5	0.37	0.68		0.25		.5	5		FC52
1289	8/3	1415 / 1418	"	3.0	0.27	0.67		0.18		.5	4		"
1290	8/10	1437 / 1445	BOUCHER-ROY	3.0	0.38	0.47		0.18		.5	7		"
1291	8/17	1545 / 1550	ROY	2.0	0.14	0.43		0.06		.5	5		"
1292	8/24	1340 / 1343	"	1.5	0.13	0.23		0.03		.5	4		"
1293	8/31	1500 / 1502	"	1.0	0.07	0.43		0.03		.5	3		"
1294	9/27	1500 / 1510	"		CHANNELS			1.3		.5	9		"
1295	9/27	1530 / 1541	"	13.5	2.29	0.79		1.8		.5	9		"

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Sta. No.

Daily discharge, in second-feet of RISING WATER at Whittier Narrows for the year ending September 30, 19 60

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	8.8	10.8	14.2	18.8	27.9	31.7	19.9	24.7	9.6	7.4	3.7	2.6
2	8.8	10.9	14.4	19.0	28.1	31.5	19.5	24.7	9.3	7.3	3.6	2.6
3	8.9	11.1	14.4	19.1	28.4	31.2	19.1	24.7	9.4	7.2	3.5	2.6
4	9.0	11.2	14.4	19.4	28.7	30.6	18.7	24.7	9.6	7.1	3.4	2.6
5	9.1	11.3	14.4	19.5	29.0	29.9	18.4	24.9	9.8	7.0	3.3	2.6
6	9.3	11.5	14.5	19.5	29.3	29.4	18.0	23.5	9.9	6.9	3.5	2.6
7	9.4	11.6	14.5	19.8	29.4	28.8	17.6	22.0	10.1	6.9	3.7	2.6
8	9.4	11.7	14.4	20.1	29.6	28.2	17.3	20.5	10.2	6.9	3.9	2.6
9	9.4	11.9	14.4	20.5	30.0	27.7	17.8	19.0	10.3	6.8	4.1	2.6
10	9.3	12.0	14.5	20.8	30.3	27.1	17.9	17.5	10.3	6.5	4.3	2.6
11	9.3	12.1	14.9	21.1	30.7	26.7	18.1	16.0	10.4	6.3	4.6	2.6
12	9.2	12.3	15.1	21.3	30.8	26.3	18.2	15.1	10.3	6.0	4.6	2.5
13	9.2	12.5	15.3	21.5	30.9	25.9	18.4	15.1	10.3	5.7	4.5	2.5
14	9.2	12.5	15.6	21.8	31.1	25.6	18.6	15.3	10.3	5.5	4.4	2.4
15	9.1	12.8	15.8	22.2	31.3	25.3	17.9	15.3	10.3	5.3	4.4	2.4
16	9.1	12.8	16.1	22.7	31.4	24.9	17.3	15.4	10.3	4.9	4.4	2.4
17	9.0	13.1	16.4	23.1	31.5	24.8	16.6	15.5	10.1	4.6	4.3	2.6
18	9.1	13.1	16.7	23.7	31.8	24.5	15.8	15.6	9.8	4.3	4.4	2.7
19	9.0	13.4	16.9	24.2	31.8	24.2	15.1	15.6	9.6	4.0	4.3	2.7
20	9.1	13.4	17.1	24.6	31.9	23.8	14.3	15.2	9.4	3.8	4.2	2.8
21	9.1	13.4	17.2	24.8	32.1	23.6	13.8	14.8	9.1	3.6	3.9	2.9
22	9.1	13.5	17.4	25.2	32.2	23.2	13.8	14.2	9.0	3.7	3.7	3.0
23	9.3	13.5	17.6	25.4	32.3	22.9	13.7	13.7	8.7	3.8	3.4	3.0
24	9.5	13.5	17.8	25.7	32.5	22.6	13.7	13.1	8.5	4.0	3.3	2.9
25	9.6	13.7	17.9	25.9	32.6	22.4	13.7	12.6	8.4	4.1	3.2	2.9
26	9.7	13.8	18.1	26.3	32.8	22.0	13.6	11.8	8.3	4.2	3.2	2.8
27	9.9	13.9	18.3	26.5	32.5	21.7	17.9	11.4	8.0	4.4	3.0	2.9
28	10.1	14.0	18.4	26.9	32.3	21.4	22.7	11.1	7.9	4.5	2.9	2.8
29	10.4	14.2	18.6	27.2	32.0	21.0	25.0	10.8	7.7	4.5	2.8	2.8
30	10.4	14.1	18.7	27.5		20.8	24.8	10.5	7.6	4.3	2.8	2.8
31	10.7		18.7	27.7		20.5		9.9		4.1	2.6	
	290.5	379.6	502.7	711.8	895.2	790.2	527.2	514.2	282.5	165.6	115.9	80.4
MEAN	9.37	12.7	16.2	23.0	30.9	25.5	17.6	16.6	9.42	5.34	3.74	2.68
ACRE-FEET	576.	753.	997.	1410.	1780.	1570.	1050.	1020.	560.	328.	230.	159.

Remarks:

YEAR OR PERIOD MEAN 14.4
ACRE-FEET 10430.

76D74M Gib 11-59

LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

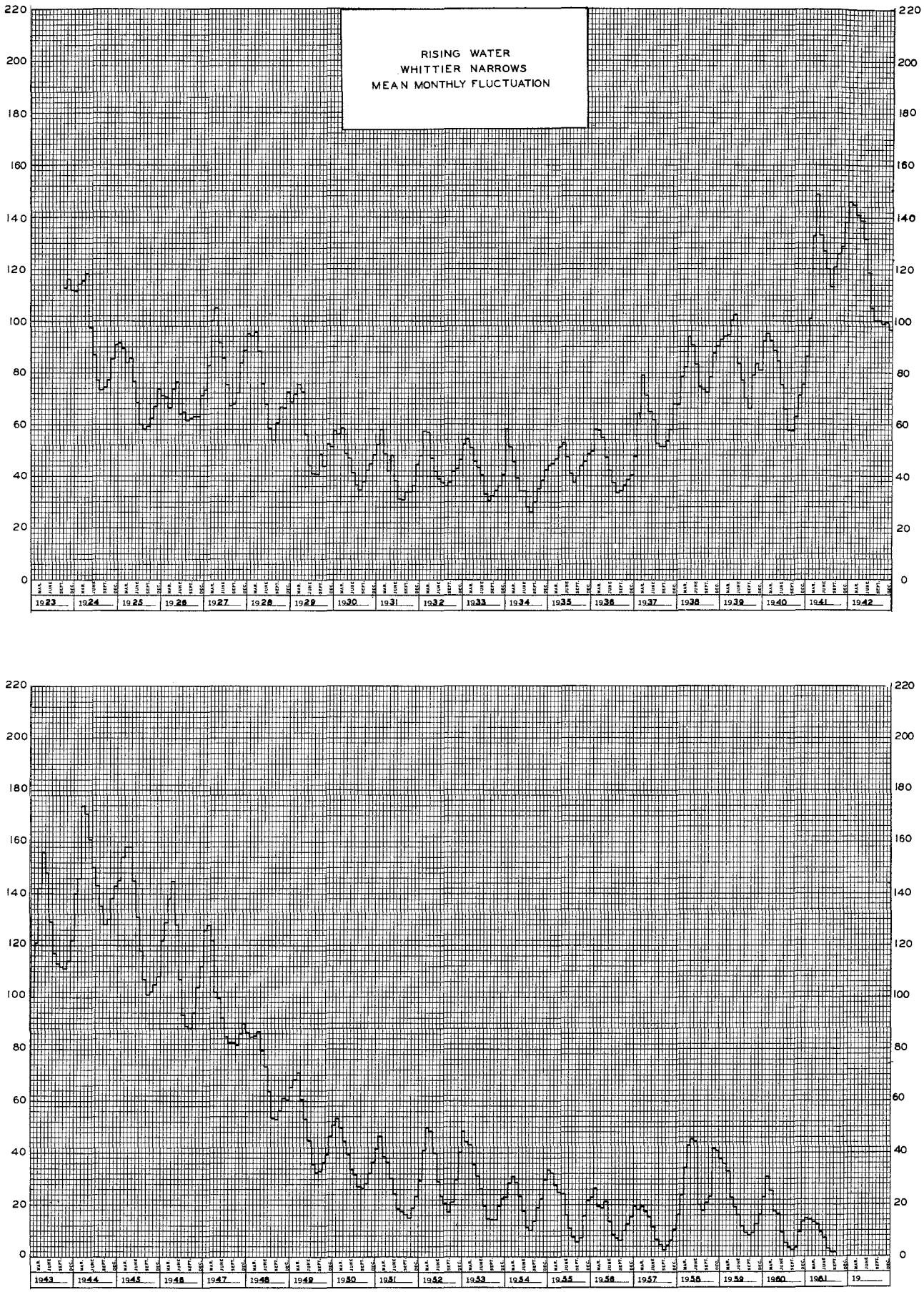
Sta. No.

Daily discharge, in second-feet of RISING WATER at Whittier Narrows for the year ending September 30, 19 61

Day	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
1	2.8	5.2	11.3	14.4	14.5	13.5	13.0	11.6	8.2	4.3	1.5	1.6
2	2.8	5.5	11.5	14.5	14.6	13.5	12.7	11.4	8.3	4.5	1.6	1.6
3	2.8	5.9	11.7	14.6	14.6	13.5	12.5	11.2	8.6	4.7	1.6	1.6
4	2.7	6.1	11.9	14.6	14.6	14.1	12.3	11.1	8.8	4.9	1.7	1.5
5	2.7	6.3	12.1	14.6	14.6	14.5	12.2	10.8	9.0	5.1	1.8	1.5
6	2.7	6.7	12.4	14.6	14.6	15.0	12.3	10.6	9.2	5.2	1.9	1.5
7	2.8	7.1	12.5	14.6	14.6	14.7	12.5	10.4	9.5	4.9	2.0	1.5
8	2.9	7.4	12.8	14.6	14.5	14.4	12.7	10.1	9.7	4.6	2.1	1.2
9	3.1	7.8	12.9	14.6	14.5	14.0	12.8	9.9	9.4	4.2	2.2	1.0
10	3.2	8.0	13.1	14.5	14.6	13.6	13.1	9.8	9.0	3.9	2.3	1.0
11	3.4	8.4	13.4	14.5	14.6	13.5	13.2	9.8	8.6	3.6	2.3	1.0
12	3.6	8.8	13.6	14.6	14.6	13.3	13.3	9.9	8.2	3.4	2.2	1.0
13	3.6	9.2	13.9	14.5	14.6	13.0	13.3	9.9	7.9	3.2	2.1	1.0
14	3.5	9.7	14.1	14.5	14.5	13.1	12.6	9.8	7.4	2.9	2.0	1.1
15	3.5	10.1	14.4	14.4	13.8	13.2	12.6	9.8	7.0	2.7	1.8	1.2
16	3.4	10.5	14.5	14.3	13.6	13.3	12.5	9.7	6.8	2.5	1.8	1.4
17	3.3	10.9	14.6	14.3	13.6	13.4	12.5	9.5	6.7	2.4	1.8	1.5
18	3.2	11.5	14.5	14.2	13.6	13.4	12.4	9.3	6.6	2.2	1.8	1.7
19	3.2	11.9	14.5	14.2	13.6	13.4	12.6	9.1	6.5	2.0	1.8	1.9
20	3.2	12.3	14.5	14.1	13.5	13.5	12.7	8.8	6.4	1.9	1.8	2.0
21	3.4	12.9	14.6	14.2	13.6	13.6	12.6	8.4	6.4	1.8	1.9	2.2
22	3.5	11.6	14.7	14.3	13.6	13.0	12.6	8.1	6.3	1.7	1.8	2.4
23	3.7	11.1	14.7	14.3	13.6	12.5	12.5	8.0	6.0	1.7	1.8	2.6
24	3.8	10.9	14.7	14.4	13.6	12.5	12.5	7.8	5.6	1.6	1.8	2.7
25	4.0	11.0	14.5	14.4	13.6	12.6	12.6	7.8	5.1	1.5	1.8	2.9
26	4.1	11.0	14.5	14.5	13.4	12.8	12.6	7.9	4.8	1.4	1.8	3.0
27	4.2	10.9	14.5	14.4	13.4	12.9	12.5	7.9	4.5	1.3	1.8	3.2
28	4.4	11.2	14.5	14.4	13.4	13.0	12.3	8.0	4.2	1.3	1.8	3.2
29	4.6	11.2	14.4	14.4		13.1	12.0	7.9	4.0	1.4	1.7	3.2
30	4.7	11.4	14.4	14.5		13.2	11.8	8.1	4.2	1.4	1.7	3.4
31	5.0		14.4	14.5		13.3		8.1		1.5	1.7	
	107.8	282.5	424.1	447.5	393.9	416.4	377.8	290.5	212.9	89.7	57.7	56.6
MEAN	3.48	9.42	13.7	14.4	14.1	13.4	12.6	9.37	7.10	2.89	1.86	1.89
ACRE-FEET	214.	560.	841.	888.	781.	826.	749.	576.	422.	178.	114.	112.

Remarks:

YEAR OR PERIOD MEAN 8.65
ACRE-FEET 6260.


RISING WATER
WHITTIER NARROWS
MEAN MONTHLY FLUCTUATION
DISCHARGE IN SECOND-FEET
0
20
40
60
80
100
120
140
160
180
200
220
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961
19

MISCELLANEOUS MEASUREMENTS

DISCHARGE MEASUREMENTS OF ANTELOPE VALLEY DRAINAGE AREA

AT NEAR Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			MOUNTAIN BROOK below Big Rock Springs										
4	2/21	1215 / 1230	WHISLER	7.2	1.42	1.26		1.8		.5	15		FC59
5	3/8	1100 / 1108	"	7.0	1.01	0.87		0.88		.5	8		"
6	3/22	1328 / 1338	PENTON-WHISLER	4.0	0.62	0.63		0.39		.5	9		"
7	3/29	1040 / 1050	FRAZELLE-WHISLER	4.0	0.74	0.74		0.55		.5	8		"
			VALYERMO RANCH DIVERSION below Big Rock Springs										
6	2/21	1230 / 1235	WHISLER	5.2	0.84	1.17		0.98		.5	10		FC59
7	3/8	1110 / 1116	"	5.0	0.71	1.01		0.72		.5	6		"
8	3/22	1310 / 1325	PENTON-WHISLER	4.9	0.67	0.96		0.64		.5	10		"
9	3/29	1021 / 1036	FRAZELLE-WHISLER	5.4	0.93	1.04		0.97		.5	9		"

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER DRAINAGE AREA

AT NEAR Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SANTA CLARA RIVER - 1 Mile below Ravenna										
86	10/1	1543 / 1555	WHISLER	3.5	0.88	2.05		1.8		.5	7		FC59
87	11/5	0828 / 0833	"	4.2	0.86	1.98		1.7		.5	6		"
88	12/3	1206 / 1212	"	4.0	0.72	2.22		1.6		.5	7		"
89	1/7	1250 / 1256	"	3.8	0.89	1.80		1.6		.5	9		"
90	2/4	1250 / 1258	"	5.0	1.10	1.64		1.8		.5	6		"
91	3/3	1508 / 1514	"	6.0	1.32	1.36		1.8		.5	7		"
92	4/7	1449 / 1455	"	5.0	1.28	1.17		1.5		.5	7		"
93	5/5	1300 / 1306	"	4.5	0.88	1.93		1.7		.5	7		"
94	6/16	1340 / 1350	MC BRIDE - WHISLER	4.8	0.78	1.15		0.90		.5	10		"
95	7/6	1305 / 1322	MC BRIDE	5.0	1.25	0.74		0.93		.5 / .6	11		FC60
96	8/4	1256 / 1301	WHISLER	5.0	1.30	0.75		0.98		.5	6		FC59
97	9/8	1138 / 1143	"	4.4	0.64	1.56		1.0		.5	6		"

DISCHARGE MEASUREMENTS OF SANTA CLARA RIVER DRAINAGE AREA

AT NEAR Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SANTA CLARA RIVER one mile below Ravenna										
98	10-6	1350 / 1356	WHISLER	4.5	0.76	1.45		1.1		.5	6		FC59
99	11/3	0950 / 0956	"	4.5	1.05	1.52		1.6		.5	9		"
100	12/8	1144 / 52	"	CHANNELS				1.5		.5	10		"
101	1/5	0800 / 0810	"	3.8	0.75	1.87		1.4		.5	9		"
102	2/2	0902 / 0907	"	4.5	0.85	1.53		1.3		.5	6		"
103	3/9	1114 / 1120	"	4.5	0.85	1.53		1.3		.5	10		"
104	4/6	1352 / 1359	"	5.0	1.08	1.39		1.5		.5	6		"
105	5/4	1353 / 1359	"	5.0	1.08	1.30		1.4		.5	6		"
106	6/8	1328 / 1334	PETERSEN-WHISLER	5.0	0.86	1.40		1.2		.5	6		"
107	7/6	1100 / 1112	PETERSEN	5.0	0.98	1.02		1.0		.5	8		"
108	8/10	1040 / 1044	WHISLER	5.0	0.76	1.84		1.4		.5	6		"
109	9/7	0840 / 0848	"	4.0	0.80	1.75		1.4		.5	8		"

DISCHARGE MEASUREMENTS OF SANTA MONICA MOUNTAIN-COASTAL DRAINAGE AREA

AT NEAR Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			ARROYO SEQUIT at Malholland Drive										
132	2/18	1130 / 1140	SJOSTEDT	3.0	0.65	0.98		0.64		.5	7		FC50
133	3/3	1110 / 1120	"	3.0	0.68	0.96		0.65		.5	7		"
134	3/17	1150 / 1200	"	3.0	0.75	0.61		0.46		.5	7		"
135	3/31	1215 / 1220	"	3.0	0.71	0.54		0.38		.5	5		"
136	4/14	1230 / 1235	"	3.0	0.67	0.43		0.29		.5	5		"
137	4/28	1255 / 1300	"	3.0	0.65	0.51		0.33		.5	5		FC47
138	5/12	1150 / 1200	"	3.0	0.58	0.52		0.30		.5	5		FC50
139	5/26	1300 / 1310	"	2.0	0.36	0.69		0.25		.5	5		"
140	6/9	1230 / 1235	"	2.0	0.37	0.64		0.24		.5	5		"
141	6/23	1140 / 1145	"	2.0	0.34	0.60		0.20		.5	5		"
142	7/7	1320 / 1325	"	1.0	0.16	0.94		0.15		.5	5		"
143	7/21	1300 / 1310	WALTER	2.4	0.40	0.32		0.13		.5	6		"
144	8/4	1148 / 1156	"	2.5	0.37	0.27		0.10		.5	6		"
145	8/18	1132 / 1138	"	2.3	0.34	0.20		0.07		.5	5		"
146	9/8	1336 / 1343	"	2.1	0.17	1.18		0.02		.5	5		"
147	9/15	1025 / 1030	WALTER-SJOSTEDT	0.85	0.06	0.50		0.03		.5	5		"
148	9/29	1040 / 1045	SJOSTEDT-WALTER	0.90	0.05	0.60		0.03		.5	5		"
			RUSTIC CANYON above Junction with Santa Monica Canyon										
137	10/1	1400 / 1410	SJOSTEDT	2.0	0.47	1.32		0.62		.5	7		FC50
138	10/15	1215 / 1220	"	2.0	0.43	1.23		0.53		.5	5		"
139	10/22	1420 / 1425	"	2.0	0.40	1.30		0.52		.5	5		"
140	10/29	1340 / 1345	"	2.0	0.43	1.28		0.55		.5	5		"
141	11/5	1300 / 1315	"	2.5	0.61	1.21		0.73		.5	6		"
142	11/12	1340 / 1350	"	2.0	0.41	1.22		0.50		.5	5		"
143	11/19	1150 / 1155	"	2.0	0.41	1.56		0.64		.5	5		"
144	11/25	1515 / 1525	"	2.0	0.41	1.25		0.51		.5	5		"
145	12/3	1225 / 1230	"	2.0	0.45	1.40		0.63		.5	5		"
146	12/10	1110 / 1115	"	2.0	0.41	1.39		0.57		.5	5		"
147	12/17	1255 / 1300	"	2.5	0.54	1.31		0.71		.5	6		"
148	12/23	1210 / 1215	"	2.5	0.54	1.31		0.71		.5	6		"
149	12/30	1530 / 1540	"	2.5	0.53	1.28		0.68		.5	6		"
150	1/7	1605 / 1610	"	2.5	0.55	1.33		0.73		.5	6		"
151	1/21	1355 / 1405	"	3.5	0.83	0.97		0.81		.5	8		"
152	1/28	1310 / 1320	"	4.0	0.92	0.68		0.63		.5	6		"
153	2/4	1310 / 1320	"	3.0	0.98	1.12		1.1		.5	7		"
154	2/11	1530 / 1545	COOK-SJOSTEDT	3.8	0.82	1.20		0.99		.5	8		"
155	2/18	1410 / 1420	SJOSTEDT	3.0	0.78	1.03		0.80		.5	7		"
156	2/25	1541 / 1550	"	3.0	0.84	1.05		0.88		.5	7		"
157	3/3	1350 / 1400	"	2.5	0.50	1.82		0.91		.5	6		"
158	3/10	1100 / 1105	"	2.5	0.54	1.78		0.96		.5	6		"
159	3/17	1340 / 1345	"	2.5	0.56	1.71		0.96		.5	6		"
160	3/24	1225 / 1235	"	2.5	0.70	1.20		0.84		.5	6		"
161	3/31	1410 / 1420	"	3.5	0.76	0.97		0.74		.5	6		"
162	4/7	1220 / 1230	"	3.0	0.68	1.44		0.98		.5	7		"
163	4/14	1440 / 1445	"	3.0	0.72	1.53		1.1		.5	5		"
164	4/21	1345 / 1356	"	2.5	0.55	1.40		0.77		.5	6		"
165	4/28	0850 / 0900	"	4.0	1.23	1.06		1.3		.5	6		FC47
166	5/5	1610 / 1620	"	3.5	0.84	1.31		1.1		.5	5		FC50
167	5/12	1400 / 1410	"	3.0	0.47	1.34		0.63		.5	7		"
168	5/19	1550 / 1600	"	3.0	0.58	1.26		0.73		.5	7		"
169	5/26	1410 / 1420	"	3.0	0.62	1.06		0.66		.5	7		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			RUSTIC CANYON above Junction with Santa Monica Canyon (Continued)										
170	6/2	1605 / 1615	SJOSTEDT	3.0	0.55	1.36		0.74		.5	7		FC50
171	6/9	0905 / 0915	"	2.5	0.39	1.67		0.65		.5	6		"
172	6/16	1600 / 1610	"	2.5	0.43	1.53		0.66		.5	6		"
173	6/23	1505 / 1510	"	2.5	0.45	1.38		0.62		.5	6		"
174	6/30	1225 / 1230	"	2.5	0.66	1.02		0.67		.5	6		"
175	7/7	1530 / 1540	"	3.0	1.11	0.56		0.62		.5	7		"
176	7/15	1315 / 1325	WALTER	4.1	0.92	0.66		0.61		.5	6		"
177	7/21	1520 / 1526	"	3.1	0.58	0.91		0.53		.5	5		"
178	7/28	1340 / 1347	"	4.0	1.32	0.54		0.69		.6	7		"
179	8/4	1500 / 1508	"	3.3	0.94	0.55		0.52		.5/.6	6		"
180	8/11	1405 / 1413	"	3.3	1.00	0.57		0.57		.6	6		"
181	8/18	1336 / 1343	"	3.5	0.88	0.66		0.58		.5/.6	6		"
182	8/25	1430 / 1440	PETERSEN - WALTER	3.9	0.97	0.65		0.63		.5/.6	7		"
183	9/1	1520 / 1531	PETERSEN	3.5	0.94	0.47		0.44		.5/.6	8		"
184	9/8	1446 / 1455	WALTER	4.0	1.10	0.50		0.55		.5/.6	7		"
185	9/15	1305 / 1310	WALTER-SJOSTEDT	4.7	0.96	0.65		0.62		.5	7		"
186	9/22	1420 / 1430	" "	3.3	0.80	0.76		0.61		.5	8		"
187	9/26	1355 / 1400	SJOSTEDT-WALTER	3.0	0.71	0.83		0.59		.5	7		"

DISCHARGE MEASUREMENTS OF SANTA MONICA MOUNTAIN-COASTAL DRAINAGE AREA

AT NEAR Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			RUSTIC CANYON above Junction with Santa Monica Canyon										
188	10/6	1140 / 1145	SJOSTEDT	4.0	0.94	0.68		0.64		.5	6		FC50
189	10/13	1410 / 1415	"	4.0	0.98	0.56		0.55		.6	5		"
190	10/20	1230 / 1240	"	3.0	0.60	0.80		0.48		.5	7		"
191	10/27	1330 / 1340	"	3.0	0.70	0.97		0.68		.5	7		"
192	11/10	1545 / 1555	"	2.5	0.54	1.54		0.83		.5	6		"
193	11/17	1420 / 1430	"	3.0	0.62	1.26		0.78		.5	7		"
194	11/23	1310 / 1320	"	3.0	0.62	1.00		0.62		.5	7		"
195	12/1	1525 / 1535	"	3.0	0.61	1.16		0.71		.5	7		"
196	12/8	1345 / 1355	"	3.0	0.59	1.29		0.76		.5	7		"
197	12/22	1405 / 1415	"	2.5	0.49	1.30		0.64		.5	6		"
198	12/30	1215 / 1225	"	2.5	0.48	1.40		0.67		.5	6		"
199	1/5	0920 / 0930	"	2.5	0.49	1.45		0.71		.5	6		"
200	1/12	0950 / 1000	"	3.0	0.59	1.32		0.78		.5	7		"
201	1/19	0940 / 0950	"	3.0	0.59	1.20		0.71		.5	7		"
202	2/2	0920 / 0930	"	3.0	0.96	0.82		0.79		.5	7		"
203	2/16	1220 / 1230	"	3.0	1.09	0.60		0.66		.5/.6	7		"
204	2/23	1220 / 1230	"	3.0	1.14	0.52		0.59		.5	7		"
205	3/2	0910 / 0915	SJOSTEDT-PENTON	3.0	1.15	0.53		0.61		.5	7		"
206	3/9	1555 / 1605	SJOSTEDT	3.0	1.28	0.52		0.66		.5/.6	7		"
207	3/16	1335 / 1345	"	3.5	1.23	0.68		0.84		.5/.6	8		"
208	3/23	1130 / 1140	"	3.0	0.65	0.97		0.63		.5	7		"
209	3/30	1310 / 1320	"	2.5	0.55	1.08		0.59		.5	6		"
210	4/6	1300 / 1310	"	2.5	0.55	0.89		0.49		.5	6		"
211	4/13	1240 / 1250	"	2.5	0.62	0.95		0.59		.5	6		"
212	4/27	1355 / 1400	"	2.5	0.72	0.78		0.56		.5	6		"
213	5/4	1300 / 1310	"	2.5	0.72	0.72		0.52		.5	6		"
214	5/11	1135 / 1140	"	3.0	0.70	0.71		0.50		.5	7		"
215	5/18	1310 / 1320	"	2.5	0.53	1.04		0.55		.5	6		"
216	5/25	0910 / 0915	"	2.5	0.61	0.90		0.55		.5	6		"
217	6/15	1525 / 1535	WALTER	3.2	0.68	0.78		0.53		.5/.6	7		"
218	6/22	1430 / 1438	"	3.0	0.54	0.96		0.52		.5	8		"
219	6/29	1015 / 1023	"	2.5	0.45	1.33		0.60		.5	6		"
220	7/5	1525 / 1530	"	2.4	0.48	1.14		0.55		.5/.6	6		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			RUSTIC CANYON above Junction with Santa Monica Canyon (Continued)										
221	7/13	1605 / 1610	SJOSTEDT	2.0	0.37	1.27		0.47		.5	5		"
222	7/20	1140 / 1150	"	2.0	0.36	1.47		0.53		.5	5		"
223	7/27	1100 / 1105	"	2.0	0.39	1.26		0.49		.5	5		"
224	8/3	1400 / 1407	FALCONE-SJOSTEDT	2.1	0.39	1.00		0.39		.5	5		"
225	8/10	1515 / 1525	SJOSTEDT	2.5	0.62	0.77		0.48		.5/.6	6		"
226	8/17	1400 / 1410	"	2.5	0.66	0.80		0.53		.5	6		"
227	8/24	1120 / 1125	"	2.5	0.72	0.75		0.54		.5	6		"
228	8/31	1325 / 1335	"	2.5	0.74	0.77		0.57		.5	6		"
229	9/7	1545 / 1550	"	2.5	0.68	0.65		0.44		.5	6		"
230	9/13	1245 / 1300	"	2.5	0.74	0.61		0.45		.5	6		"
231	9/20	1400 / 1410	PETERSEN-SJOSTEDT	2.5	0.82	0.67		0.55		.5/.6	6		"

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER DRAINAGE AREA

AT NEAR Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			BIG TUJUNGA CREEK below Big Tujunga Dam (Outflow)										
138	10/1	1145 / 1230	HYDE	7.2	3.79	1.29		4.9		.6	15		FC40
139	10/8	1258 / 1320	"	7.2	3.87	1.27		4.9		.6	15		"
140	10/14	1128 / 1146	"	6.8	3.20	0.88		2.8		.6	15		FC60
141	10/22	1343 / 1403	"	6.5	2.95	0.95		2.8		.6	14		"
142	10/29	1120 / 1140	"	6.0	2.43	1.11		2.7		.6	13		"
143	11/5	1240 / 1258	"	6.0	2.54	1.10		2.8		.6	13		"
144	11/12	1310 / 1325	"	6.0	2.45	1.10		2.7		.6	13		FC58
145	11/19	1140 / 1158	"	6.0	2.49	1.04		2.6		.6	13		FC60
146	11/27	0900 / 0916	"	5.0	1.46	0.51		0.74		.6	11		"
147	12/3	1245 / 1255	"	5.0	1.51	0.50		0.76		.5/.6	11		"
148	12/10	1200 / 1215	"	5.0	1.48	0.48		0.71		.5	11		"
149	1/7	1215 / 1227	"	3.5	0.82	0.91		0.75		.5	8		"
150	1/21	1150 / 1202	"	3.6	0.96	0.89		0.85		.5	8		"
151	1/28	1308 / 1320	"	3.5	0.95	1.00		0.95		.5	8		"
152	4/14	1315 / 1325	"	3.8	1.08	0.93		1.0		.5	9		"
153	4/21	1150 / 1205	"	4.0	1.08	1.02		1.1		.5	9		FC40
154	5/5	1240 / 1255	"	4.9	1.92	1.72		3.3		.6	10		"
155	5/12	1128 / 1154	"	7.5	2.44	1.40		3.4		.5	16		"
156	5/16	0958 / 1013	HYDE-COOK	6.5	2.35	2.12		5.0		.6	14		"
157	5/16	1030 / 1050	" "	7.0	2.53	1.94		4.9		.6	15		"
158	5/16	1110 / 1130	" "	7.0	3.14	1.53		4.8		.6	15		"
159	5/19	1232 / 1254	HYDE	8.2	3.87	1.36		5.3		.6	17		"
160	5/26	1130 / 1156	PETERSEN-HYDE	8.5	3.78	1.38		5.2		.6	18		"
161	6/2	1230 / 1250	BROOK-HYDE	8.2	4.36	1.46		6.4		.6	17		"
162	6/9	1050 / 1115	HYDE	8.7	4.19	1.52		6.4		.6	18		"
163	6/16	1100 / 1122	BROOK	8.0	4.18	1.50		6.3		.5/.6	17		"
164	6/23	1027 / 1053	MC BRIDE - BROOK	8.5	4.27	1.38		5.9		.5/.6	18		"
165	6/30	0958 / 1020	BROOK	9.0	4.35	1.38		6.0		.5/.6	19		"
166	7/7	1100 / 1125	MC BRIDE	8.5	4.46	1.30		5.8		.5/.6	17		"
167	7/14	1054 / 1118	HYDE	6.5	3.09	1.72		5.3		.6	14		"
168	7/28	1115 / 1130	"	5.0	1.80	1.95		3.5		.6	11		"
169	7/29	1552 / 1610	"	5.0	1.70	1.41		2.4		.5	11		"
170	8/4	1144 / 1155	"	4.5	1.52	1.58		2.4		.5	10		"
171	8/11	1115 / 1130	"	4.7	1.55	1.42		2.2		.5	10		"
172	8/18	1112 / 1125	"	5.0	1.19	1.51		1.8		.5	11		"
173	8/25	0920 / 0938	"	4.3	1.03	1.07		1.1		.5	10		FC40 FC60
174	9/1	1210 / 1225	"	4.5	1.00	1.20		1.2		.5	10		FC60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			BIG TUJUNGA CREEK below Big Tujunga Dam (Outflow) (Continued)										
175	9/8	0930 / 0945	HYDE	4.5	1.10	1.09		1.2		.5	10		FC60
176	9/15	1005 / 1020	"	4.5	1.07	1.12		1.2		.5	10		"
177	9/22	0950 / 1005	"	4.5	1.15	0.96		1.1		.5	10		"
178	9/29	1210 / 1230	"	4.0	1.22	0.90		1.1		.5	10		"
			BIG TUJUNGA CREEK - L.A.W.D. Diversion to Spreading Grounds										
91	3/31	1430 / 1440	HYDE-SOLOMON	2.5	0.50	1.70		0.85		.5	6		FC60
92	5/5	1550 / 1600	" "	6.5	2.74	1.24		3.4		.5	9		FC40
93	5/12	1500 / 1512	" "	4.5	1.52	1.25		1.9		.5	10		"
94	5/16	0815 / 0830	HYDE-COOK	5.2	2.54	1.61		4.1		.6	11		"
95	5/19	1524 / 1534	HYDE	3.2	1.38	1.74		2.4		.6	7		"
96	5/26	1518 / 1532	PETERSEN-HYDE	3.5	1.56	1.79		2.8		.6	8		"
97	6/2	1535 / 1545	BROOK-HYDE					4.6	COMPOSITE				"
98	6/9	1438 / 1452	HYDE					5.1	"				"
99	6/16	1429 / 1448	BROOK					5.1	"				"
100	6/23	1430 / 1447	MC BRIDE - BROOK					3.3	"				"
101	6/30	1335 / 1402	BROOK					3.9	"				"
102	7/7	1500 / 1514	MC BRIDE					3.6	"				"
103	7/14	1516 / 1526	HYDE-SOLOMON	5.8	2.55	0.78		2.0		.6	9		FC60
104	7/14	1540 / 1545	" "	3.0	0.79	1.52		1.2		.5	6		"
105	8/4	1510 / 1515	HYDE					1.0	COMPOSITE				"
106	8/11	1515 / 1520	"					0.80	"				FC40
			BIG TUJUNGA CREEK near Oro Vista Street										
103	3/31	1610 / 1614	HYDE	2.0	0.28	1.00		0.28		.5	5		FC60
104	5/12	1615 / 1620	"	1.8	0.23	0.96		0.22		.5	5		"
105	5/19	1600 / 1605	"	1.8	0.23	1.00		0.23		.5	5		"
106	5/26	1555 / 1605	PETERSEN-HYDE	1.2	0.20	1.25		0.25		.5	5		"
107	6/2	1555 / 1600	(MONTE VISTA PIPE LINE) BROOK-HYDE	3.2	0.80	1.25		1.0		.5	7		FC40
108	6/2	1625 / 1628	(SPREADING BASIN OVERFLOW) BROOK-HYDE	1.2	0.11	0.64		0.07		.5	5		FC60
109	6/2	1635 / 1640	(ABOVE ORO VISTA STREET) BROOK-HYDE	2.0	0.38	0.87		0.33		.5	6		"
110	6/9	1600 / 1606	HYDE	1.5	0.44	1.45		0.64		.5	6		"
111	6/16	1518 / 1526	BROOK	2.2	0.50	1.40		0.70		.5	6		FC40
112	6/23	1508 / 1514	MC BRIDE - BROOK	2.5	0.52	1.36		0.71		.5	6		FC60
113	6/30	1443 / 1452	BROOK	2.9	0.50	1.18		0.59		.5	8		"
114	7/7	1540 / 1546	MC BRIDE	1.5	0.45	1.30		0.59		.6	5		"
115	8/4	1540 / 1545	HYDE	2.8	0.83	0.62		0.51		.5	7		"
116	8/11	1555 / 1600	"	2.0	0.68	0.71		0.48		.5	5		FC40
117	8/25	1520 / 1526	"	1.8	0.19	0.90		0.17		.5	6		FC60
			ARROYO SECO below Millard Creek										
90	2/17	1020 / 1032	HOLLERON	5.5	1.28	1.41		1.8		.6	12		FC48
91	2/24	1135 / 1145	"	5.0	1.29	1.32		1.7		.6	10		"
92	3/2	1534 / 1546	"	10.0	2.54	1.50		3.8		.6	11		"
93	3/9	1048 / 1100	"	5.3	1.53	1.31		2.0		.6	11		"
94	3/16	0926 / 0934	"	6.5	1.53	1.11		1.7		.6	9		"
95	3/23	1116 / 1125	HOLLERON-WALTER	4.2	1.05	1.14		1.2		.5 .6	9		"
96	3/30	1022 / 1032	HOLLERON	4.5	1.32	1.36		1.8		.6	10		"
97	4/6	1116 / 1124	"	2.4	0.59	1.32		0.78		.6	7		"
98	4/13	0845 / 0853	"	2.4	0.58	1.53		0.89		.6	7		"
99	4/20	1145 / 1155	"	2.1	0.47	1.00		0.47		.6	8		"
100	5/4	1104 / 1112	"	3.9	1.06	2.26		2.4		.6	9		"
101	5/11	1006 / 1014	"	3.5	0.52	1.88		0.98		.5	8		"
102	5/18	0928 / 0938	BOWMAN-HOLLERON	4.1	0.61	1.64		1.0		.5	11		"
103	5/25	0840 / 0845	" "	4.0	0.56	1.59		0.89		.5	9		"
104	6/1	1000 / 1010	BOWMAN	3.5	0.41	1.46		0.60		.5	8		"
105	6/8	0953 / 1003	"	3.5	0.44	1.55		0.68		.5	10		"
106	6/15	0830 / 0836	"	2.2	0.16	1.38		0.22		.5	6		"
107	6/22	0930 / 0940	"	1.7	0.17	0.82		0.14		.5	6		"
108	6/29	0852 / 0858	BOWMAN-BLAKELY	1.4	0.10	0.90		0.09		.5	6		"
109	7/6	1105 / 1115	BOWMAN	1.3	0.09	0.89		0.08		.5	6		"
			ARROYO SECO below Devils Gate Dam (Outflow)										
282	1/28	0926 / 0932	HOLLERON	1.0	0.15	0.73		0.11		.5	6		FC48
283	2/3	1048 / 1110	"					0.27	COMPOSITE				"
284	2/10	0910 / 0925	"					0.28	"				"
285	2/17	0910 / 0925	"					0.33	"				"
286	2/24	1022 / 1030	"					0.40	"				"
287	3/2	1422 / 1435	"					0.46	"				"
288	3/9	0920 / 0924	"	1.6	0.27	1.04		0.28		.6	5		"
289	3/16	1006 / 1012	"	1.6	0.26	0.97		0.25		.5	5		"
290	3/23	1207 / 1212	HOLLERON-WALTER	1.6	0.28	1.00		0.28		.5	5		"
291	3/30	1123 / 1127	HOLLERON	1.6	0.26	1.00		0.26		.6	5		"
292	4/6	1212 / 1218	"	1.6	0.26	0.92		0.24		.5	5		"
293	4/13	0942 / 0948	"	1.3	0.18	1.06		0.19		.5	6		"
294	4/20	1307 / 1313	"	1.4	0.22	1.09		0.24		.5	6		"
295	4/27	1326 / 1330	"	1.7	0.27	1.07		0.29		.5	5		"
296	5/4	1213 / 1219	"	2.0	0.39	0.90		0.35		.6	6		"
297	5/11	0920 / 0926	"	2.0	0.34	1.03		0.35		.6	7		"
298	5/18	1109 / 1115	BOWMAN-HOLLERON	2.0	0.34	1.06		0.36		.6	6		"
299	5/25	1012 / 1018	" "	1.8	0.33	1.03		0.34		.6	6		"
300	6/1	1130 / 1140	BOWMAN	2.1	0.35	0.83		0.29		.5	7		"
301	6/8	1117 / 1127	"	1.9	0.29	0.90		0.26		.5	7		"
302	6/15	0935 / 0945	"	1.4	0.23	1.00		0.23		.5	5		"
303	6/22	1035 / 1045	"	1.4	0.16	0.63		0.10		.5	6		"
304	6/29	1009 / 1015	"	1.0	0.08	0.62		0.05		.5	5		"
305	7/6	1220 / 1225	"	0.60	0.06	0.33		0.02		.5	4		"
306	7/13	0928 / 0930	"	0.35	0.01	1.00		0.01		.5	3		"
307	8/2	1425 / 1435	"	1.3	0.38	1.84		0.70		.5	6		"
308	8/3	0815 / 0830	"	4.5	1.03	2.23		2.3		.5	10		"
309	8/3	1041 / 1059	"	3.2	0.92	1.41		1.3		.5	8		"
310	8/3	1116 / 1122	"	3.0	0.64	1.31		0.84		.5	8		"
311	8/3	1142 / 1159	"	3.2	0.76	1.45		1.1		.5	9		"
312	8/10	1043 / 1052	BOWMAN-WOOD	3.2	0.77	1.43		1.1		.5	9		"
313	8/17	0854 / 0904	" "	3.1	0.66	1.50		1.0		.5	9		"
314	8/22	0920 / 0932	WOOD-STUNDEN	3.2	0.84	2.02		1.7		.5	9		FC53
			ARROYO SECO-PASADENA WATER DEPARTMENT TUNNEL below Devils Gate Dam										
149	10/22	1000	HOLLERON	(GAUGE HEIGHT = HEAD IN INCHES)				2.1		0.03	90° V-NOTCH WEIR		
150	10/28	1110	"	"	"			2.1		0.03	" "	" "	
151	11/4	1420	"	"	"			2.0		0.03	" "	" "	
152	11/19	1515	"	"	"			2.0		0.03	" "	" "	
153	11/25	1200	"	"	"			2.1		0.03	" "	" "	
154	12/3	1630	"	"	"			2.0		0.03	" "	" "	
155	12/9	0950	BOWMAN	"	"			1.9		0.02	" "	" "	
156	12/17	1525	HOLLERON	"	"			1.9		0.02	" "	" "	
157	12/23	1425	"	"	"			2.2		0.04	" "	" "	
158	12/30	1430	"	"	"			3.0		0.08	" "	" "	
159	1/6	1335	"	"	"			2.1		0.03	" "	" "	
160	1/28	0935	"	"	"			3.0		0.08	" "	" "	
161	2/3	1110	"	"	"			3.2		0.09	" "	" "	
162	2/10	0925	"	"	"			3.5		0.12	" "	" "	
163	2/17	0925	"	"	"			3.7		0.13	" "	" "	
164	2/24	1035	"	"	"			3.8		0.14	" "	" "	

DISCHARGE MEASUREMENTS OF LOS ANGELES RIVER DRAINAGE AREA

AT ~~NEAR~~ Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
			ARROYO SECO-PASADENA WATER DEPARTMENT TUNNEL below Devil's Gate Dam (Continued)										
165	3/2	1435	HOLLERON	"	"		4.0	0.16	90° V-NOTCH WEIR				
166	3/9	0915	"	"	"		4.2	0.18	"	"	"	"	
167	3/16	1020	"	"	"		4.4	0.20	"	"	"	"	
168	3/23	1200	HOLLERON-WALTER	"	"		4.9	0.27	"	"	"	"	
169	3/30	1130	HOLLERON	"	"		4.9	0.27	"	"	"	"	
170	4/20	1320	"	"	"		4.8	0.26	"	"	"	"	
171	4/27	1335	"	"	"		4.8	0.26	"	"	"	"	
172	5/4	1225	"	"	"		5.1	0.30	"	"	"	"	
173	5/11	0930	"	"	"		5.1	0.30	"	"	"	"	
174	5/18	1125	BOWMAN-HOLLERON	"	"		5.0	0.28	"	"	"	"	
175	5/25	1020	" "	"	"		4.9	0.27	"	"	"	"	
176	6/1	1145	BOWMAN	"	"		4.7	0.25	"	"	"	"	
177	6/8		"	"	"		4.6	0.23	"	"	"	"	
178	6/15	1000	"	"	"		4.3	0.20	"	"	"	"	
179	6/22		"	"	"		4.1	0.17	"	"	"	"	
180	6/29	1035	"	"	"		4.0	0.16	"	"	"	"	
181	7/6	1230	"	"	"		3.8	0.14	"	"	"	"	
182	7/13	0940	"	"	"		3.5	0.12	"	"	"	"	
183	7/20	0905	"	"	"		3.4	0.11	"	"	"	"	
184	7/27	0955	"	"	"		3.0	0.08	"	"	"	"	
185	8/3	1215	"	"	"		2.9	0.07	"	"	"	"	
186	8/10	1105	BOWMAN-WOOD	"	"		2.8	0.07	"	"	"	"	
187	8/17	0916	" "	"	"		2.7	0.06	"	"	"	"	
188	8 24	1000	BOWMAN	"	"		2.6	0.06	"	"	"	"	
189	8/31	1645	WOOD	"	"		2.6	0.06	"	"	"	"	
190	9/7	1340	"	"	"		2.9	0.07	"	"	"	"	
191	9/14	1025	"	"	"		3.6	0.12	"	"	"	"	
192	9/21	0858	"	"	"		2.9	0.07	"	"	"	"	
193	9/28	1010	"	"	"		2.9	0.07	"	"	"	"	
			LAGUNA CREEK above Blanchard Street										
87	10/16	0900 / 0910	BONADIMAN	4.5	0.80	0.70		0.56		.6	7		FC61
88	11/16	0845 / 0855	"	3.7	0.74	0.70		0.52		.6	7		"
89	12/15	0850 / 0900	"	3.3	0.84	0.69		0.58		.6	8		"
90	1/22	0905 / 0912	"	3.5	0.89	0.61		0.55		.6	6		"
91	2/16	0945 / 0956	"	8.5	3.06	0.20		0.61		.6	9		"
92	3/15	0930 / 0940	"	7.8	2.84	0.28		0.81		.6	8		"
93	4/18	0820 / 0828	"	3.5	0.68	0.68		0.46		.6	6		"
94	5/18	0910 / 0918	"	6.2	1.55	0.61		0.94		.6	7		"
95	6/15	0900 / 0910	"	7.0	1.95	0.38		0.73		.6	8		"
96	7/18	0855 / 0905	"	9.0	2.62	1.71		0.45		.6	9		"
97	8/12	0900 / 0910	"	8.0	3.61	0.20		0.72		.6	8		"
98	9/16	0856 / 0906	MC BRIDE	5.0	2.49	0.32		0.79		.6	7		"
			LAGUNA CREEK above D.D.I. 26										
1	10/16	0930 / 0940	BONADIMAN	3.2	0.43	0.91		0.39		.6	8		FC61
2	11/16	0910 / 0920	"	4.2	0.35	1.23		0.43		.6	7		"
3	12/15	0915 / 0925	"	4.0	0.40	1.45		0.58		.6	7		"
4	1/22	0925 / 0935	"	3.5	0.97	0.42		0.41		.6	8		"
5	2/16	1010 / 1020	"	4.0	1.76	0.23		0.41		.6	7		"
6	3/15	1010 / 1020	"	4.0	0.38	1.50		0.57		.6	5		"
7	4/18	0845 / 0850	"	3.5	0.22	0.68		0.15		.6	6		"
8	5/18	0930 / 0938	"	4.0	0.33	0.85		0.28		.6	5		"
9	6/15	0920 / 0930	"	5.3	1.77	0.28		0.50		.6	6		"
10	7/18	0915 / 0925	"	5.2	1.13	0.44		0.50		.6	7		"
11	8/12	0920 / 0930	"	6.5	2.90	0.30		0.88		.6	10		"
12	9/16	0940 / 0948	MC BRIDE	5.0	0.47	0.81		0.38		.5	7		"
			BIG TUJUNGA CREEK below Big Tujunga Dam (Outflow)										
179	10/6	1045 / 1055	HYDE	3.0	0.52	1.21		0.63		.5	7		FC60
180	10/13	0940 / 0950	"	3.0	0.56	1.16		0.65		.5	7		"
181	10/20	1202 / 1210	HYDE-BLAKELY	3.0	0.58	1.18		0.68		.5	7		"
182	10/27	1012 / 1022	HYDE	3.2	0.69	1.03		0.71		.5	8		"
183	11/10	1000 / 1010	"	3.2	0.67	1.02		0.68		.5	8		"
184	11/16	1320 / 1330	BOWMAN	3.3	0.70	0.86		0.60		.5	8		FC48
185	11/25	1232 / 1242	HYDE-KEPHART	3.5	0.87	0.82		0.71		.5	8		FC60
186	12/1	0954 / 1008	HYDE	3.5	0.89	0.81		0.72		.5	8		"
187	12/8	1025 / 1035	"	3.5	0.85	0.82		0.70		.5	8		"
188	12/15	1200 / 1210	"	3.5	0.91	0.77		0.70		.5	8		"
189	12/22	0946 / 0956	HYDE-KEPHART	2.8	0.65	1.09		0.71		.5	7		"
190	12/29	1354 / 1402	" "	3.0	0.67	1.04		0.70		.5	7		"
191	1/5	1050 / 1100	" "	3.0	0.70	1.02		0.71		.5	7		"
192	1/12	0850 / 0900	HYDE	3.0	0.71	1.02		0.73		.5	7		"
193	1/19	0905 / 0915	"	3.0	0.73	1.04		0.76		.5	7		"
194	1/27	1002 / 1012	"	3.2	0.78	1.00		0.78		.5	7		"
195	5/16	0842 / 0852	HYDE-WINDER	3.0	0.68	1.46		0.99		.5	7		"
196	5/18	1453 / 1500	HYDE	3.0	0.69	1.60		1.1		.5	7		"
197	5/24	0825 / 1052	"	4.2	1.11	1.71		1.9		.5	9		FC40
198	5/29	0825 / 0838	"	5.0	2.08	2.02		4.2		.6	11		"
199	5/31	0950 / 1005	"	4.8	1.58	1.39		2.2		.5	11		"
200	6/8	1013 / 1025	"	4.7	1.73	1.27		2.2		.5 .6	11		FC60
201	6/15	1035 / 1048	PENTON-HYDE	4.7	1.65	1.52		2.5		.5	10		"
202	6/15	1100 / 1110	HYDE-PENTON	4.5	1.56	1.35		2.1		.5	10		"
203	6/22	0922 / 0938	HYDE	4.1	1.56	1.28		2.0		.5 .6	9		"
204	6/29	0945 / 1000	"	4.5	1.90	1.16		2.2		.6	10		"
205	6/29	1015 / 1030	"	4.4	1.67	1.26		2.1		.6	10		"
206	7/6	1046 / 1057	"	4.1	1.55	1.29		2.0		.5 .6	9		"
207	7/13	0956 / 1008	"	4.2	1.60	1.25		2.0		.5	10		"
208	7/20	1030 / 1042	"	4.3	1.48	1.35		2.0		.6	10		"
209	7/27	1015 / 1025	"	4.2	1.47	1.36		2.0		.6	10		"
210	8/3	1035 / 1045	"	4.3	1.15	1.74		2.0		.5	10		"
211	8/10	0952 / 1005	"	4.5	1.51	1.39		2.1		.5	10		"
212	8/17	0910 / 0922	"	4.4	1.10	1.82		2.0		.5	10		"
213	8/24	1010 / 1022	"	4.4	1.17	1.62		1.9		.5	10		"
214	8/31	1142 / 1154	"	3.8	1.23	1.54		1.9		.6	9		"
215	9/7	0956 / 1010	FALCONE-HYDE	3.8	1.19	1.68		2.0		.5	9		"
216	9/14	1155 / 1206	FALCONE	3.8	1.35	1.56		2.1		.5	10		"
217	9/14	1400 / 1411	"	3.8	1.32	1.67		2.2		.5	10		"
218	9/21	1340 / 1353	HYDE	4.4	1.16	1.64		1.9		.5	10		"
219	9/28	1415 / 1430	"	4.5	1.19	1.60		1.9		.5	10		"
			BIG TUJUNGA CREEK-Wildwood Swimming Pool Diversion										
4	6/1	0855 / 0905	HYDE	4.0	1.38	1.01		1.4		.5 .6	9		FC60
5	6/5	1020 / 1026	"	2.5	0.40	1.35		0.54		.5	6		"
6	6/8	0920 / 0930	"	3.5	1.15	1.22		1.4		.5	8		"
7	6/15	0918 / 0928	PENTON-HYDE	3.3	0.65	1.54		1.0		.5	8		"
8	7/6	0850 / 0900	HYDE	3.9	1.56	0.96		1.5		.6	9		"
9	8/3	0925 / 0934	"	4.2	1.17	0.79		0.93		.5	9		"
10	9/7	0928 / 0940	FALCONE-HYDE	4.1	1.33	0.62		0.82		.5	9		"
11	9/14	1050 / 1103	FALCONE	3.7	2.25	0.49		1.1		.5	8		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	E. HT. CHANGE TOTAL	METER NO.
			BIG TUJUNGA CREEK - L.A.W.D. Diversion to Spreading Grounds										
107	11/16	1535 / 1550	BOWMAN	5.5	1.98	0.86		1.7		.5	12		FC48
108	12/8	1335 / 1345	HYDE-SOLOMON	4.0	1.03	1.46		1.5		.5	10		FC60
109	1/5	1520 / 1530	HYDE	3.1	1.04	1.35		1.4		.5	9		"
110	1/19	1405 / 1420	"	3.7	0.92	1.20		1.1		.5	10		"
111	2/2	1332 / 1338	"	4.6	1.42	1.69		2.4		.5	10		"
112	3/16	1415 / 1421	"	3.0	0.52	0.92		0.48		.5	7		"
			ARROYO SECO below Millard Creek										
110	11/9	1303 / 1314	WOOD	7.9	0.95	2.95		2.8		.5	10		FC53
111	11/16	1042 / 1050	"	8.0	0.81	2.47		2.0		.5	9		"
112	11/23	1033 / 1041	"	6.1	0.56	1.78		1.0		.5	9		"
113	11/30	1505 / 1520	"	6.4	0.62	2.10		1.3		.5	10		"
114	12/6	1326 / 1336	"	3.7	0.35	2.25		0.79		.5	9		"
115	12/14	1136 / 1144	"	4.0	0.37	2.60		0.96		.5	8		"
116	12/21	1108 / 1119	"	4.4	0.45	2.22		1.0		.5	10		"
117	12/28	1420 / 1427	"	3.4	0.30	2.13		0.64		.5	8		"
118	1/4	1351 / 1356	"	3.0	0.33	1.67		0.55		.5	7		"
119	1/13	0845 / 0853	FALCONE	2.8	0.38	1.84		0.70		.5	6		"
120	1/18	1406 / 1414	WOOD	3.1	0.32	1.68		0.54		.5	7		"
121	1/25	1623 / 1630	WOOD-FALCONE	3.3	0.45	2.00		0.90		.5	8		"
122	1/28	1748 / 1755	WOOD	8.4	1.00	2.20		2.2		.5	10		"
123	2/1	1609 / 1616	"	3.3	0.59	2.20		1.3		.5	8		"
124	2/8	1108 / 1116	"	4.0	0.47	1.90		0.89		.5	8		"
125	2/15	1240 / 1247	BROOK-WOOD	3.0	0.37	1.68		0.62		.5	8		"
126	3/15	1405 / 1412	WOOD-FRAZELLE	4.7	0.77	3.95		3.0		.5	10		"
127	3/29	1308 / 1317	PETERSEN-WOOD	2.2	0.21	1.28		0.27		.5	7		"
			ARROYO SECO below Devil's Gate Dam (Outflow)										
315	11/30	1617 / 1624	WOOD					0.20	COMPOSITE				FC53
316	12/6	1601 / 1607	"	2.6	0.41	0.59		0.24		.5	8		"
317	12/14	1248 / 1255	"	3.1	0.44	0.59		0.26		.5	7		"
318	12/21	1343 / 1350	"	3.6	0.35	0.63		0.22		.5	8		"
319	12/28	1537 / 1543	"	2.6	0.38	0.76		0.29		.5	6		"
320	1/4	1605 / 1612	"	2.9	0.43	0.65		0.28		.5	7		"
321	1/13	1050 / 1056	FALCONE	2.8	0.34	0.73		0.25		.5	6		"
322	1/18	1445 / 1451	WOOD	3.1	0.39	0.72		0.28		.5	7		"
323	1/25	1533 / 1537	WOOD-FALCONE	2.8	0.28	0.75		0.21		.5	7		"
324	1/28	1617 / 1634	WOOD	59.0	52.0	3.68		191.		.6	20		FC57
325	1/30	0958 / 1008	WOOD-BROOK	5.6	1.19	1.01		1.2		.5	11		FC53
326	2/1	1428 / 1442	WOOD	5.7	1.15	0.96		1.1		.5	11		"
327	2/8	1253 / 1305	"	5.6	1.12	0.83		0.93		.5	12		"
328	2/15	1350 / 1358	BROOK-WOOD	4.4	0.98	1.02		1.0		.5	10		"
329	2/23	1130 / 1139	WOOD	4.2	0.87	0.86		0.75		.5	10		"
330	3/1	1311 / 1319	FALCONE-WOOD	5.4	1.10	0.81		0.89		.5	6		"
331	3/8	1112 / 1122	WOOD	4.4	0.74	0.69		0.51		.5	10		"
332	3/15	1505 / 1513	WOOD-FRAZELLE	4.1	0.75	0.57		0.43		.5	9		"
333	3/22	1318 / 1328	WOOD	4.3	0.68	0.62		0.42		.5	10		"
334	3/29	1313 / 1323	PETERSEN-WOOD	4.5	0.87	0.49		0.43		.5	10		"
335	4/5	1337 / 1345	WOOD	3.9	0.65	0.49		0.32		.5	9		"
336	4/12	1334 / 1339	"	3.0	0.18	0.50		0.09		.5	7		"
337	4/19	1318 / 1320	"	1.2	0.07	0.14		0.01		.5	5		"
338	5/24	1608 / 1621	"	20.1	8.44	0.98		8.3		.5 .6	12		FC57
339	5/24	1800 / 1813	WOOD-CARPENTER	11.0	7.62	2.72		20.7		.5 .6	12		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	E. HT. CHANGE TOTAL	METER NO.
			ARROYO SECO-PASADENA WATER DEPARTMENT TUNNEL below Devil's Gate Dam										
194	10/5	1058	WOOD	(GAUGE HEIGHT = HEAD IN INCHES			2.9	0.07	90° V-NOTCH WEIR				
195	10/14	0912	"	"	"	"	2.6	0.06		"	"	"	
196	10/19	1059	"	"	"	"	2.6	0.06		"	"	"	
197	10/26	1336	"	"	"	"	3.1	0.09		"	"	"	
198	11/2	1352	"	"	"	"	2.4	0.04		"	"	"	
199	11/9	1038	"	"	"	"	3.6	0.12		"	"	"	
200	11/16	1125	"	"	"	"	3.6	0.12		"	"	"	
201	11/23	1140	"	"	"	"	5.0	0.28		"	"	"	
202	11/30	1610	"	"	"	"	5.0	0.28		"	"	"	
203	12/6	1550	"	"	"	"	5.1	0.30		"	"	"	
204	12/14	1238	"	"	"	"	5.1	0.30		"	"	"	
205	12/21	1336	"	"	"	"	5.1	0.30		"	"	"	
206	12/28	1555	"	"	"	"	5.1	0.30		"	"	"	
207	12/28	1602 / 1611	"	1.6	0.28	1.04		0.29		.5	7		FC53
208	1/4	1550	"	(GAUGE HEIGHT = HEAD IN INCHES)			5.2	0.31	90° V-NOTCH WEIR				
209	1/18	1438	"	"	"	"	5.0	0.28		"	"	"	
210	1/25	1527	"	"	"	"	5.0	0.28		"	"	"	
211	1/30	1017	"	"	"	"	5.2	0.31		"	"	"	
212	2/1	1456 / 1503	"	1.2	0.18	0.94		0.17		.5	7		FC53
213	2/8	1246	"	GAUGE HEIGHT = HEAD IN INCHES			3.6	0.12	90° V-NOTCH WEIR				
214	2/15	1335	BROOK-WOOD	"	"	"	3.8	0.14		"	"	"	
215	2/23	1120	WOOD	"	"	"	4.0	0.16		"	"	"	
216	3/1	1300	FALCONE-WOOD	"	"	"	4.4	0.21		"	"	"	
217	3/8	1105	WOOD	"	"	"	4.3	0.19		"	"	"	
218	3/15	1500	WOOD-FRAZELLE	"	"	"	4.1	0.17		"	"	"	
219	3/22	1312	WOOD	"	"	"	4.2	0.18		"	"	"	
220	3/29	1307	PETERSEN-WOOD	"	"	"	4.3	0.19		"	"	"	
221	4/5	1330	WOOD	"	"	"	4.2	0.18		"	"	"	
222	4/12	1323	"	"	"	"	4.1	0.17		"	"	"	
223	4/19	1310	"	"	"	"	5.0	0.28		"	"	"	
224	4/26	1030	"	"	"	"	5.0	0.28		"	"	"	
225	5/3	1058	"	"	"	"	5.1	0.30		"	"	"	
226	5/10	1133	"	"	"	"	5.6	0.38		"	"	"	
227	5/17	0900	"	"	"	"	5.6	0.38		"	"	"	
228	5/24	0820	"	"	"	"	5.8	0.41		"	"	"	
229	5/31	1550	"	"	"	"	5.5	0.36		"	"	"	
230	6/14	1717	"	"	"	"	5.6	0.38		"	"	"	
231	7/13	1520	"	"	"	"	2.2	0.04		"	"	"	
232	7/20	1048	"	"	"	"	2.2	0.04		"	"	"	
233	7/27	1050	"	"	"	"	2.2	0.04		"	"	"	
234	8/3	1043	"	"	"	"	2.1	0.03		"	"	"	
235	8/9	1118	"	"	"	"	2.1	0.03		"	"	"	
236	8/17	0953	"	"	"	"	2.1	0.03		"	"	"	
237	8/23	1022	WOOD-FALCONE	"	"	"	2.1	0.03		"	"	"	
238	8/31	1042	WOOD	"	"	"	1.9	0.02		"	"	"	
239	9/6	1050	"	"	"	"	1.9	0.02		"	"	"	
240	9/13	0946	"	"	"	"	1.9	0.02		"	"	"	
241	9/21	0955	"	"	"	"	1.9	0.02		"	"	"	
242	9/27	1231	"	"	"	"	1.8	0.02		"	"	"	

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			LAGUNA CREEK above Blanchard Street										
99	10/17	1055 / 1104	BONADIMAN	5.3	1.29	0.39		0.50		.6	7		FC61
100	11/18	0855 / 0905	"	4.3	1.10	0.40		0.44		.6	8		"
101	12/16	0900 / 0908	"	5.5	1.56	0.47		0.73		.6	7		"
102	1/18	0845 / 0900	"	7.5	1.81	0.35		0.63		.6	8		"
103	2/17	0955 / 1005	"	4.0	1.44	0.28		0.40		.6	9		"
104	3/20	0910 / 0924	"	7.0	2.06	0.21		0.43		.6	9		"
105	5/19	0850 / 0902	"	3.2	0.46	0.98		0.45		.6	6		"
106	7/18	1005 / 1012	"	2.7	0.36	0.95		0.34		.6	7		"
107	8/21	0912 / 0927	"	3.3	0.43	1.07		0.46		.6	7		"
108	9/19	1430 / 1447	BROOK	11.0	1.00	0.62		0.62		.5	14		"
			LAGUNA CREEK above D.C.I. No. 26										
13	10/17	1110 / 1120	BONADIMAN	3.9	1.21	3.22		0.39		.6	9		FC61
14	11/18	0915 / 0922	"	4.8	0.78	0.62		0.48		.6	6		"
15	12/16	0920 / 0928	"	4.0	0.31	0.78		0.24		.6	5		"
16	1/18	0910 / 0918	"	7.5	2.48	0.24		0.60		.6	7		"
17	2/17	1015 / 1025	"	6.0	1.29	0.26		0.34		.6	8		"
18	3/20	0930 / 0937	"	4.0	0.97	0.48		0.47		.6	6		"
19	5/19	0920 / 0928	"	3.2	0.59	0.75		0.44		.6	7		"
20	6/16	0900 / 0905	"	2.0	0.21	0.81		0.17		.6	5		"
21	7/18	1023 / 1030	"	2.8	0.45	0.85		0.38		.6	6		"
22	8/21	0932 / 0940	"	3.4	0.62	0.81		0.50		.6	7		"
23	9/19	1458 / 1504	BROOK	3.0	0.52	1.13		0.59		.5	7		"

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT ~~NEAR~~ Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SANTA ANITA CREEK above Santa Anita Dam (Inflow)										
193	2/4	0912 / 0922	HOLLERON	CHANNELS				3.0		.6	11		FC56
194	3/3	1030 / 1044	"	7.0	2.14	1.45		3.1		.6	14		FC48
			SAWPIT CREEK below Sawpit Dam (Outflow)										
86	6/16	1550	BOWMAN					0.22		VOLUMETRIC			
87	6/23	1525	"					0.17		"			
88	6/30	1515	"					0.14		"			
89	7/14	1615	"					0.17		"			
90	7/28	1355	"					0.10		"			
91	8/11	1450	BOWMAN-WOOD					0.10		"			
92	8/18	1600	BOWMAN					0.05		"			
93	8/25	1515	WOOD-BOWMAN					0.10		"			
94	9/8	1246	WOOD					0.04		"			
95	9/15	1120	"					0.02		"			
96	9/22	1636	"					0.05		"			
			SANTA ANITA CREEK below Santa Anita Dam (Outflow)										
764	10/21	1608 / 1628	HOLLERON	7.7	5.01	1.87		9.4		.6	15		FC56
765	1/6	0913 / 0923	"	3.6	0.57	1.14		0.65		.5	10		FC48
766	2/8	1000 / 1010	"	4.6	0.95	1.26		1.2		.6	10		"
767	2/11	0840 / 0850	"	4.5	0.98	1.33		1.3		.5	10		"
768	2/18	0915 / 0925	"	3.0	0.56	1.43		0.80		.5	8		"
769	3/24	0920 / 0934	WALTER-HOLLERON	4.5	0.89	1.58		1.4		.5	9		"
770	3/30	0810 / 0820	HOLLERON	3.0	0.56	1.18		0.66		.6	9		"
			SANTA ANITA CREEK above Sierra Madre Spreading Grounds Diversion										
231	12/10	0900 / 0910	BOWMAN	1.0	0.08	0.88		0.07		.5	5		FC48

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SANTA ANITA CREEK below Sierra Madre Spreading Grounds Diversion										
213	12/16	1530 / 1540	HOLLERON	4.4	1.13	1.59		1.8		.5	10		FC48
214	12/17	1226 / 1238	"	4.5	1.17	1.62		1.9		.5	10		"
215	1/13	0930 / 0938	"	2.8	0.44	1.07		0.47		.5	8		"
216	2/3	1348 / 1356	"	2.1	0.23	1.13		0.26		.5	8		"
217	2/4	1038 / 1048	"	3.5	1.05	1.24		1.3		.6	10		"
218	3/8	1100 / 1110	"	4.5	0.93	1.94		1.8		.6	10		"
219	3/9	1204 / 1210	"	3.0	0.66	0.94		0.62		.5	7		"
220	3/10	1340 / 1350	BOWMAN	3.7	0.66	1.97		1.3		.5	10		"
221	3/17	1440 / 1500	COOK-BOWMAN	5.6	1.01	1.29		1.3		.5	13		"
222	6/16	0915 / 0920	BOWMAN	2.0	0.13	0.85		0.11		FLOATS	5		
223	7/5	0905 / 0935	"	21.3	7.93	3.55		28.1		.5 / .6	16		FC6
224	7/5	1000 / 1030	"	21.3	9.21	2.96		27.2		.5 / .6	16		"
225	7/5	1445 / 1505	"	21.1	10.9	2.56		27.8		.5 / .6	16		"
226	7/5	1535 / 1600	"	21.2	11.0	2.56		28.2		.5 / .6	17		"
227	7/6	1425 / 1445	"	21.5	12.2	2.28		27.8		.5 / .6	16		"
228	7/7	0830 / 0850	"	21.5	12.5	2.19		27.4		.5 / .6	17		"
229	7/7	1540 / 1600	"	21.4	11.7	2.40		28.0		.5 / .6	17		"
230	7/8	1445 / 1505	"	21.1	6.44	2.64		17.0		.5 / .6	17		"
231	7/8	1700 / 1715	"	10.0	3.61	2.10		7.6		.5	13		"
232	7/12	1323 / 1350	"	20.6	7.42	1.52		11.3		.5	16		"
233	7/14	0800 / 0825	"	21.3	11.3	2.00		22.6		.5 / .6	19		FC64
234	7/15	1445 / 1525	"	21.5	12.0	2.05		24.6		.5 / .6	19		"
235	7/18	1545 / 1610	BOWMAN-STUNDEN	10.0	4.24	2.58		10.9		.5	12		"
236	8/11	1054 / 1100	BOWMAN-WOOD	2.6	0.45	1.64		0.74		.5	7		FC48
237	8/18	1118 / 1130	WOOD-BOWMAN	2.3	0.82	0.81		0.66		.5	8		"
238	8/25	0905 / 0915	" "	3.5	0.50	1.26		0.63		.5	10		FC53
239	9/8	0903 / 0908	WOOD	2.4	0.11	0.73		0.08		.5	6		"
240	9/15	0932 / 0937	"	1.9	0.08	0.50		0.04		.5	6		"
241	9/22	0853 / 0858	"	2.2	0.13	0.62		0.08		.5	7		"
242	9/29	0828 / 0834	"	1.5	0.10	0.70		0.07		.5	6		"
			SANTA ANITA CREEK DEBRIS DAM OUTFLOW										
1	3/1	1558 / 1602	HOLLERON	4.0	0.32	4.07		1.3		FLOATS .8			
2	3/2	0812 / 0828	"					0.90		COMPOSITE			
3	3/2	1132 / 1146	"					7.8		"			
4	3/2	1655 / 1707	"					2.5		"			
			SANTA ANITA CREEK Inflow to Santa Anita Spreading Grounds										
1	10-22	0830	HOLLERON	2-FOOT PARSHALL FLUME				10.8					
2	10-29	1040	"	"	"	"		9.8					
3	12/16	1530 / 1540	"					12.6		COMPOSITE			
4	12/17	1226 / 1238	"					15.7		"			
5	1/13	0930 / 0955	"					15.5		"			
6	2/3	1348 / 1400	"					15.6		"			
7	2/4	1038 / 1100	"					12.6		"			
8	2/24	0810	"	2-FOOT PARSHALL FLUME				15.8					
9	3/8	1100 / 1110	"					28.7		COMPOSITE			
10	3/9	1204 / 1210	"					27.9		"			
11	7/6	1550 / 1610	BOWMAN	11.7	8.69	1.85		16.1		.5 / .6	14		FC6
12	8/3	1400 / 1417	"	2.7	1.35	2.00		2.7		.5	10		FC48
13	8/8	1624 / 1635	"	2.7	1.62	2.29		3.7		.6	10		"
			SANTA ANITA CREEK - RISING WATER below Debris Dam										
1	7/18	1410 / 1422	BOWMAN-STUNDEN	4.5	1.00	1.30		1.3		.5	10		FC48
2	7/28	0800 / 0812	BOWMAN	4.0	0.50	1.12		0.56		.5	9		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
			RIO HONDO AT SAN GABRIEL BOULEVARD - (Mission Bridge)										
			(Rising Water into Zone I Water)										
1	3/10	1110 / 1130	WADDICOR-HOLLERON		CHANNELS			15.7		.6	20		FC52
2	3/18	1555 / 1615	HOLLERON		"			15.5		.6	22		FC48
3	3/21	1346 / 1408	"		"			15.2		.6	22		"
4	3/24	1123 / 1153	WADDICOR		"			15.6		.6	24		FC52
5	3/31	1237 / 1305	"		"			14.9		.6	24		"
6	4/14	1110 / 1132	ROY		"			17.6		.5 / .6	18		"
7	4/21	1120 / 1142	PETERSEN-ROY	20.5	13.0	1.24		16.2		.6	15		"
8	4/28	1630 / 1652	ROY		CHANNELS			14.6		.5 / .6	24		"
9	5/5	1055 / 1115	"		"			17.4		.6	20		"
10	5/12	1156 / 1216	ROY-LINDSAY		"			12.8		.6	20		"
11	5/19	1056 / 1115	ROY		"			12.6		.6	18		"
12	5/26	1046 / 1104	ROY-WALTER		"			13.6		.6	19		"
13	6/2	1056 / 1114	ROY		"			17.9		.6	15		FC51
14	6/9	1108 / 1129	"		"			16.0		.6	19		FC52
15	6/15	0930 / 0945	"		"			18.6		.5 / .6	16		FC51
16	6/16	0930 / 0943	"		"			18.4		.5 / .6	14		"
			RIO HONDO 200' above Mission Bridge										
1	6/15	0910 / 0925	ROY		CHANNELS			19.7		.6	13		FC51
			RIO HONDO 250' above Mission Bridge										
1	6/16	0905 / 0921	ROY		CHANNELS			19.3		.5 / .6	16		FC51
2	6/23	0918 / 0933	"		"			21.0		.6	12		"
3	6/30	0858 / 0913	"	22.0	14.7	1.26		18.6		.6	12		"
			RIO HONDO 300' above Mission Bridge										
1	7/7	0934 / 0948	BROOK		CHANNELS			23.6		.5 / .6	11		FC51
2	7/14	0833 / 0847	ROY	18.0	12.8	1.57		20.1		.6	10		"
3	7/28	0820 / 0837	"	26.4	14.4	1.64		23.7		.6	15		"
			RIO HONDO 450' above Mission Bridge										
1	8/4	0820 / 0839	ROY	26.4	14.4	1.58		22.8		.6	15		FC51
2	8/11	0830 / 0846	"	23.5	19.8	1.42		28.2		.6	14		"
3	8/18	0815 / 0837	"	27.0	15.9	1.64		26.0		.6	16		"
4	8/24	1530 / 1548	"	25.0	16.6	1.52		25.2		.6	14		"
			RIO HONDO 500' above Mission Bridge										
1	6/15	1050 / 1112	ROY	21.5	11.6	1.47		17.1		.6	16		FC51
2	6/16	0850 / 0901	"	21.5	11.5	1.49		17.2		.6	13		"
3	7/21	0832 / 0847	"	17.5	12.8	1.70		21.5		.6	11		"
			RIO HONDO 750' above Mission Bridge										
1	7/28	0946 / 1000	ROY	19.0	13.7	1.57		21.5		.6	11		FC51
			RIO HONDO 500' below Mission Bridge										
1	5/5	1124 / 1149	ROY	18.0	11.3	1.39		15.7		.6	19		FC52

DISCHARGE MEASUREMENTS OF RIO HONDO DRAINAGE AREA

AT NEAR Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
			EATON CREEK above Eaton Dam (Inflow)										
64	1/26	1505 / 1511	WOOD-BROOK	6.0	1.58	3.98		6.3		.5	8		FC57
			SANTA ANITA CREEK above Santa Anita Dam (Inflow)										
195	4/6	1042 / 1050	WOOD	2.4	0.56	1.66		0.93		.5	8		FC53
196	4/13	0938 / 0946	WOOD-FORRESTER	2.3	0.43	1.40		0.60		.5	7		"
197	6/22	1025 / 1030	WOOD	1.1	0.14	1.14		0.16		.5	6		"
			SANTA ANITA CREEK above Sierra Madre Spreading Grounds Diversion										
232	1/27	1532 / 1543	WOOD-BROOK	15.0	7.35	4.76		35.0		.5 / .6	12		FC57
233	1/28	0910 / 0923	WOOD	15.2	9.06	3.15		28.5		.5 / .6	13		"
234	1/28	0935 / 0945	"	15.2	8.60	3.31		28.5		.5 / .6	13		"
235	1/28	1058 / 1110	"	15.2	8.56	3.00		25.8		.5 / .6	13		"
236	1/28	1119 / 1128	"	15.2	8.67	2.94		25.5		.5 / .6	12		"
237	4/3	1024 / 1039	"	13.2	6.18	2.60		16.0		.5 / .6	14		"
238	4/3	1051 / 1105	"	13.2	6.27	2.58		16.2		.5 / .6	14		"
239	4/3	1145	"	10-FOOT RECT. WEIR				16.3					
240	4/4	0940 / 0953	"	8.5	4.84	3.05		14.7		.5 / .6	10		FC57
241	4/5	1540 / 1552	"	8.5	4.96	3.00		14.9		.5 / .6	11		"
242	4/6	0856 / 0910	WOOD	8.5	4.74	3.02		14.3		.5 / .6	11		FC57
243	4/13	0844 / 0848	"	1.2	0.07	1.00		0.07		.5	5		FC53
244	4/20	0941 / 0948	PENTON-WOOD	1.2	0.09	1.00		0.09		.5	5		"
245	4/27	1015 / 1019	WOOD	1.2	0.10	0.80		0.08		.5	5		"
246	5/4	0932 / 0937	"	1.8	0.09	0.56		0.05		.5	6		"
247	5/11	0840 / 0845	"	1.6	0.10	0.80		0.08		.5	6		"
248	5/18	1021 / 1028	"	1.9	0.12	0.50		0.06		.5	7		"
249	5/25	1258 / 1303	"	1.2	0.07	0.72		0.05		.5	5		"
250	6/1	1135 / 1139	"	1.0	0.06	0.84		0.05		.5	5		"
251	6/8	1132 / 1138	"	1.5	0.18	0.61		0.11		.5	6		"
252	6/15	1110 / 1113	"	1.0	0.06	1.50		0.09		.5	5		"
253	6/19	1220 / 1233	"	8.7	5.44	2.78		15.1		.5 / .6	11		"
254	6/20	1247 / 1257	"	8.2	4.56	2.55		11.6		.5	10		"
255	6/20	1342 / 1350	"	7.8	3.62	1.44		5.3		.5 / .6	10		"
256	6/20	1535 / 1546	WOOD	8.7	5.59	2.93		16.3		.5 / .6	11		FC53
257	6/21	1308 / 1320	"	10.2	6.29	2.93		18.4		.5 / .6	11		"
258	6/21	1504 / 1515	"	10.0	5.38	2.58		13.8		.5 / .6	11		"
259	6/22	0906 / 0917	"	10.0	5.49	2.55		13.9		.5 / .6	11		"
260	6/29	1100 / 1103	"	0.4	0.02	0.50		0.01		.5	5		FC53
261	7/20	1302	"	90° V-NOTCH WEIR				0.01					
262	7/27	1225	"	"	"	"		0.01					
263	8/3	1310	"	"	"	"		0.01					
264	8/9	1232	"	"	"	"		0.01					
265	8/17	1102	"	"	"	"		0.01					
266	8/24	0953	"	"	"	"		0.01					
267	8/31	1223	"	"	"	"		0.01					
268	9/13	1029	"	"	"	"		0.01					
			SANTA ANITA CREEK below Sierra Madre Spreading Grounds Diversion										
243	10/6	0805 / 0812	WOOD	2.3	0.15	0.80		0.12		.5	7		FC53
244	10/13	0930 / 0939	"	2.1	0.18	0.56		0.10		.5	8		"
245	10/20	0920 / 0925	"	2.2	0.16	0.44		0.07		.5	8		"
246	10/27	0832 / 0839	"	1.6	0.13	0.69		0.09		.5	7		"
247	11/3	0904 / 0910	"	2.2	0.14	0.64		0.09		.5	7		"
248	11/10	0903 / 0908	"	0.8	0.03	0.60		0.02		.5	5		"
249	1/3	0946 / 0957	"	9.7	2.79	4.60		12.8		.5	11		FC57
250	1/4	0847 / 0858	"	9.7	3.93	2.65		10.4		.5 / .6	11		"
251	1/5	0815 / 0827	"	9.8	4.97	2.34		11.6		.5 / .6	11		"
252	1/26	1356 / 1400	WOOD-BROOK	4.0	0.53	0.83		0.44		.5	8		FC53
253	1/27	1334 / 1344	" "	10.0	6.83	5.28		36.1		.6	13		FC57
254	1/27	1359 / 1414	BROOK-WOOD	10.0	6.64	5.35		35.5		.6	13		"
255	1/27	1612 / 1621	WOOD-BROOK	15.2	5.94	2.78		16.5		.6	12		"
256	1/28	1155 / 1206	WOOD	8.0	4.68	1.84		8.6		.5 / .6	9		"
257	2/2	0848 / 0855	"	1.9	0.12	0.58		0.07		.5	7		FC53
258	2/9	0843 / 0847	"	1.4	0.21	0.91		0.19		.5	8		"
259	2/16	0903 / 0906	BROOK-WOOD	1.2	0.15	0.80		0.12		.5	5		"
260	2/23	1424 / 1434	WOOD	10.2	6.68	2.90		19.3		.5 / .6	11		FC57
261	2/24	0808 / 0820	"	10.1	6.12	3.09		18.9		.6	11		"
262	2/24	1640	"	10-FOOT RECT. WEIR				19.2					
263	3/2	0854 / 0900	FALCONE-WOOD	1.6	0.28	0.64		0.18		.5	5		FC53
264	3/9	0839 / 0848	FRAZELLE-WOOD	1.9	0.32	0.41		0.13		.5	7		"
265	3/16	0929 / 0937	" "	1.7	0.29	0.59		0.17		.5	7		"
266	3/23	1142 / 1148	WOOD	1.6	0.13	0.54		0.07		.5	7		"
267	3/30	0845 / 0849	PETERSEN-WOOD	1.1	0.11	1.09		0.12		.5	5		"
268	4/5	1612 / 1616	WOOD	2.3	0.16	0.50		0.08		.5	6		"
269	4/6	0934 / 0938	"	2.4	0.18	0.44		0.08		.5	6		"
270	6/19	1306 / 1310	"	2.4	0.30	1.20		0.36		.5	6		"
271	6/21	1640 / 1643	"	0.8	0.05	0.60		0.03		.5	5		"
			SANTA ANITA CREEK below Clamshell Canyon										
7	1/28	1314 / 1321	WOOD	9.5	1.95	2.83		5.5		.5	10		FC57
8	2/23	1336 / 1347	"	13.0	5.18	3.65		18.9		.5	14		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SANTA ANITA CREEK - Inflow to Santa Anita Spreading Grounds										
14	1/4	1012 / 1027	WOOD	12.0	7.69	1.48		11.4		.5 / .6	13		FC57
15	1/5	0856 / 0912	"	12.2	8.20	1.34		11.0		.6	13		"
16	4/3	1340 / 1354	"	3.6	6.26	2.46		15.4		.6	8		"
17	4/5	1638	"	2-FOOT PARSHALL FLUME				15.3					
18	4/6	0815	"	"	"	"		15.0					
19	6/19	1336 / 1347	"	3.6	5.27	2.70		14.2		.6	6		FC57
20	6/20	1224 / 1233	"	3.6	4.38	2.38		10.4		.6	8		"
21	6/20	1439 / 1447	"	3.6	2.75	1.78		4.9		.6	8		"
22	6/20	1702 / 1711	"	3.6	5.36	2.65		14.2		.6	8		"
23	6/21	1345 / 1355	"	3.6	6.24	2.90		18.1		.6	8		"
24	6/21	1556 / 1607	"	3.6	5.19	2.63		13.6		.6	8		"
25	6/22	0830 / 0840	"	3.6	5.15	2.62		13.5		.6	8		"
			SAWPIT CREEK below Sawpit Dam (Outflow)										
97	10/6	1538	WOOD					0.02	VOLUMETRIC				
98	10/20	1510	"					0.08	"				
99	10/27	1255	"					0.08	"				
100	3/30	1250	PETERSEN-WOOD					0.20	"				
			ALHAMBRA WASH at Junction with Rio Hondo										
1	12/13	1158 / 1209	ROY-CONNER	15.3	8.11	0.51		4.1		.5 / .6	9		FC51
2	1/24	0945 / 1006	ROY	29.7	30.4	0.99		30.0		.6	17		"
3	1/24	1017 / 1037	"	29.8	30.1	1.00		30.1		.6	17		"
			RIO HONDO at San Gabriel Boulevard-(Mission Bridge) (Rising Water into Zone I Water)										
17	7/27	0830 / 0841	ROY	19.0	4.52	0.90		4.1		.5	11		FC51
			RIO HONDO 100 feet above Mission Bridge										
1	1/16	0938 / 0948	ROY-FALCONE	35.5	21.2	1.63		34.5		.6	19		FC51
2	7/13	0926 / 0939	ROY	23.0	4.90	0.99		4.9		.5	13		"
3	8/3	0845 / 0854	"	15.0	4.98	0.79		4.0		.5 / .6	9		"
			RIO HONDO 200 feet above Mission Bridge										
2	7/20	0920 / 0928	ROY	CHANNELS				4.3		.5	7		FC51
			RIO HONDO 600 feet below Mission Bridge										
1	12/16	1128 / 1140	CONNER-ROY	20.5	8.36	0.91		7.6		.5 / .6	12		FC52
2	1/16	1005 / 1020	ROY-FALCONE	CHANNELS				35.1		.6	25		FC51
3	1/19	1112 / 1130	FALCONE-ROY		"			76.2		.6	23		"
4	1/23	1542 / 1600	" "		"			36.7		.6	18		"
5	2/15	0915 / 0930	ROY	23.0	8.47	0.95		8.0		.5 / .6	13		"
6	2/16	1050 / 1101	"	16.0	7.29	1.04		7.6		.5 / .6	10		"
7	2/17	0930 / 0944	MC BRIDE	22.6	7.61	0.95		7.2		.5 / .6	14		FC61
8	2/23	1234 / 1257	PENTON-ROY	32.5	21.3	1.66		35.4		.6	18		FC51
9	3/22	1500 / 1512	ROY	17.0	6.10	1.18		7.2		.6	11		"
10	3/23	1126 / 1135	"	16.4	6.01	1.23		7.4		.6	10		"
11	3/24	1609 / 1615	ROY-FALCONE	16.6	6.46	1.25		8.1		.5 / .6	10		"
12	3/31	1430 / 1442	ROY	18.5	6.86	1.15		7.9		.5 / .6	11		"
13	4/3	0835 / 0945	"	18.5	6.68	1.05		7.0		.5 / .6	11		"
14	4/4	1520 / 1533	MC BRIDE-ROY	17.0	6.09	1.02		6.2		.5 / .6	11		"
15	4/5	1605 / 1617	PETERSEN-ROY	18.0	7.35	1.08		7.9		.5 / .6	11		"
16	4/13	1056 / 1108	ROY	22.0	9.21	0.97		8.9		.5 / .6	13		"
17	4/14	1525 / 1536	"	20.0	7.74	0.96		7.4		.5 / .6	12		"
18	4/20	1033 / 1042	"	16.0	6.48	1.02		6.6		.5 / .6	10		"
19	4/27	1010 / 1018	"	13.0	7.16	0.94		6.7		.5 / .6	9		"
20	5/4	0950 / 1000	"	15.0	7.90	0.76		6.0		.5 / .6	9		"
21	5/9	0845 / 0854	ROY	17.0	9.46	0.81		7.7		.5 / .6	10		FC51
22	5/11	1038 / 1046	"	15.5	7.34	1.02		7.5		.5 / .6	10		"
23	5/18	1050 / 1102	ROY-BITTEN	15.2	6.76	0.80		5.4		.5 / .6	10		"
24	5/24	1314 / 1326	ROY	12.0	5.44	0.97		5.3		.5 / .6	13		FC52
25	6/1	1124 / 1132	"	15.0	6.36	0.79		5.0		.5 / .6	9		FC51
26	6/8	1125 / 1132	"	9.0	4.09	1.43		5.8		.5 / .6	7		"
27	6/15	1123 / 1132	"	20.0	5.12	1.13		5.8		.5	12		"
28	6/22	1015 / 1027	"	21.0	6.41	0.88		5.6		.5	13		"
29	6/29	0900 / 0913	"	18.0	4.94	1.14		5.6		.5	11		"
30	7/6	1345 / 1352	"	10.0	3.61	1.08		3.9		.5 / .6	7		"
31	7/13	0852 / 1002	"	18.0	4.86	0.85		4.1		.5 / .6	11		"

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 1960

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN GABRIEL RIVER - WEST FORK above Bear Creek										
202	10/8	1257 / 1315	DE VORE	9.6	3.80	1.53		5.8		.5 / .6	15		FC22
203	10/22	1117 / 1133	"	9.6	3.83	1.41		5.4		.5 / .6	15		"
204	11/5	1118 / 1144	"	8.0	2.07	0.63		1.3		.5 / .6	13		FC62
205	11/19	1030 / 1043	"	8.4	2.10	0.62		1.3		.5 / .6	10		"
206	12/3	1119 / 1135	"	9.0	2.77	0.47		1.3		.6	13		"
207	12/17	1025 / 1041	"	9.2	3.26	0.46		1.5		.6	13		"
208	1/7	1259 / 1313	"	9.1	2.91	0.65		1.9		.6	11		"
209	2/9	1039 / 1049	DE VORE-KEIM	8.7	3.23	1.89		6.1		.5 / .6	10		"
210	2/25	1316 / 1331	DE VORE	8.4	2.68	1.34		3.6		.6	10		"
211	3/10	1246 / 1300	"	8.8	3.10	1.39		4.3		.5 / .6	11		"
212	3/31	1136 / 1148	"	8.7	2.88	1.11		3.2		.5 / .6	10		"
213	4/14	0950 / 1006	"	7.5	2.43	0.98		2.4		.6	14		"
214	5/5	1253 / 1309	"	7.5	2.26	1.32		3.0		.5 / .6	14		"
215	5/19	1136 / 1146	"	7.5	2.07	1.35		2.8		.6	10		"
216	6/2	1013 / 1027	"	7.4	1.73	1.39		2.4		.5 / .6	11		"
217	6/23	1132 / 1144	"	7.3	1.38	0.94		1.3		.5 / .6	10		"
218	7/7	1116 / 1132	"	12.9	7.31	1.52		11.1		.6	14		FC22
219	7/28	1336 / 1353	"	13.4	7.94	1.31		10.4		.6	14		"
220	8/11	0942 / 0952	"	13.0	6.00	1.67		10.0		.5 / .6	14		"
221	8/25	0954 / 1010	"	11.8	4.75	1.28		6.1		.6	14		FC62
222	9/7	1035 / 1050	"	10.7	3.10	0.84		2.6		.5 / .6	12		"
223	9/22	1018 / 1027	BROOK	7.4	2.84	0.84		2.4		.5 / .6	9		"
			BEAR CREEK above Junction with San Gabriel River - West Fork										
192	10/8	1327 / 1354	DE VORE	6.6	1.03	2.33		2.4		.5	8		FC22
193	10/22	1239 / 1251	"	6.4	1.24	1.94		2.4		.5	11		FC62
194	11/5	1145 / 1156	"	6.6	1.51	1.85		2.8		.5 / .6	13		"
195	11/19	1011 / 1022	"	6.7	1.63	1.66		2.7		.5	9		"
196	12/3	1056 / 1110	"	6.8	1.76	1.59		2.8		.5 / .6	13		"
197	12/17	1000 / 1017	"	6.9	1.88	1.54		2.9		.5 / .6	14		"
198	1/7	1322 / 1336	"	6.8	2.30	1.65		3.8		.6	11		"
199	1/28	1305 / 1315	"	9.7	4.65	2.62		12.2		.6	9		FC22
200	2/9	1016 / 1024	DE VORE-KEIM	9.9	5.12	2.25		11.5		.6	11		"
201	2/25	1348 / 1400	DE VORE	9.2	3.78	1.77		6.7		.5 / .6	10		"
202	3/10	1310 / 1324	"	9.2	4.64	1.85		8.6		.6	10		"
203	3/31	1253 / 1304	"	8.8	3.78	1.59		6.0		.5 / .6	10		"
204	4/14	0925 / 0942	"	7.8	3.26	1.44		4.7		.6	14		FC62
205	5/5	1331 / 1333	"	8.9	4.11	1.61		6.6		.5 / .6	10		FC22
206	5/19	1301 / 1314	"	8.4	3.60	1.17		4.2		.6	12		FC62
207	6/2	0951 / 1006	"	8.4	2.60	1.19		3.1		.6	11		"
208	6/23	1300 / 1313	"	7.8	1.47	0.82		1.2		.5 / .6	10		"
209	7/7	1143 / 1153	"	3.4	0.82	1.09		0.89		.5 / .6	9		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			BEAR CREEK (Continued)										
210	7/28	0949 / 0958	DE VORE	3.9	1.07	0.63		0.67		.5 .6	8		FC62
211	8/11	0917 / 0928	"	3.8	1.01	0.61		0.62		.5 .6	9		"
212	8/25	0927 / 0935	"	2.2	0.44	1.16		0.51		.5 .6	7		"
213	9/7	1012 / 1020	"	2.3	0.39	0.87		0.34		.5 .6	7		"
214	9/22	0937 / 0942	BROOK	2.5	0.52	0.92		0.48		.5 .6	6		"
			SAN GABRIEL RIVER - NORTH FORK above Junction with West Fork										
208	10/8	1354 / 1408	DE VORE	7.5	3.69	0.68		2.5		.5 .6	12		FC22
209	10-22	1314 / 1330	"	7.2	3.60	0.64		2.3		.5 .6	12		FC62
210	11/5	1305 / 1320	"	7.2	3.76	0.72		2.7		.6	12		"
211	11/19	0940 / 0958	"	7.0	3.99	0.70		2.8		.6	13		"
212	12/3	1024 / 1039	"	7.0	4.15	0.75		3.1		.6	12		"
213	12/17	0924 / 0941	"	7.1	4.19	0.72		3.0		.6	13		"
214	1/7	1355 / 1409	"	7.8	4.34	0.67		2.9		.6	12		"
215	1/28	1330 / 1342	"	7.6	4.92	1.00		4.9		.6	12		FC22
216	2/9	1106 / 1121	DE VORE - KEIM	7.2	4.49	1.09		4.9		.6	13		FC62
217	2/25	1422 / 1438	DE VORE	7.4	4.91	0.98		4.8		.6	13		FC22
218	3/10	1359 / 1413	"	6.5	4.12	1.19		4.9		.6	12		FC62
219	3/31	1330 / 1345	"	6.6	4.48	0.96		4.3		.6	12		"
220	4/14	0846 / 0909	"	6.3	3.47	1.15		4.0		.6	11		"
221	5/5	1354 / 1405	"	6.1	3.65	1.18		4.3		.6	12		"
222	5/19	1353 / 1405	"	6.6	3.58	0.95		3.4		.6	12		"
223	6/2	0917 / 0931	"	6.2	3.28	0.91		3.0		.6	11		"
224	6/23	1338 / 1354	"	6.3	3.06	0.62		1.9		.6	12		"
225	7/7	1419 / 1432	"	6.2	2.97	0.54		1.6		.6	11		"
226	7/28	0907 / 0921	"	6.3	3.11	0.55		1.7		.6	10		"
227	8/11	0851 / 0904	"	6.4	3.09	0.58		1.8		.6	11		"
228	8/25	0856 / 0910	"	5.6	2.57	0.70		1.8		.6	11		"
229	9/7	0941 / 0955	"	6.0	2.53	0.63		1.6		.6	11		"
230	9/22	0900 / 0914	BROOK	5.5	2.40	0.66		1.6		.6	11		"
			SAN GABRIEL RIVER - Cattle Canyon above East Fork										
109	10/1	1443 / 1455	DE VORE	4.5	1.72	0.76		1.4		.5 .6	10		FC62
110	10/15	1441 / 1454	"	4.4	1.61	0.60		0.96		.5 .6	10		"
111	10/29	1345 / 1357	"	4.8	2.02	0.74		1.5		.6	10		"
112	11/12	1507 / 1519	"	5.0	2.21	0.63		1.4		.6	10		"
113	11/25	1444 / 1455	"	5.6	2.52	0.60		1.5		.6	10		"
114	12/10	1427 / 1436	"	5.4	2.74	0.73		2.0		.6	9		"
115	12/30	1423 / 1434	"	6.3	3.24	0.71		2.3		.6	9		"
116	1/14	1406 / 1411	DE VORE - COOK	7.2	4.14	0.89		3.7		.6	7		FC22
117	1/21	1524 / 1533	BROOK	7.5	3.54	0.85		3.0		.5 .6	9		FC35
118	2/4	1143 / 1153	DE VORE	8.5	5.38	0.74		4.0		.6	11		FC22
119	2/18	1440 / 1451	"	7.8	4.42	0.84		3.7		.6	10		FC62
120	3/3	1503 / 1515	"	8.6	5.38	0.99		5.3		.6	10		FC22
121	3/17	1450 / 1504	DE VORE - HOLLERON	8.1	4.63	0.97		4.5		.6	14		FC62
122	4/7	1510 / 1528	DE VORE	8.5	4.03	0.89		3.6		.6	14		"
123	4/21	1431 / 1447	"	6.8	3.21	0.87		2.8		.6	13		"
124	5/12	1503 / 1521	"	7.5	3.64	1.02		3.7		.6	12		"
125	5/26	1510 / 1529	"	8.0	4.22	1.04		4.4		.6	14		"
126	6/9	1540 / 1555	"	7.5	3.65	0.93		3.4		.6	12		"
127	6/30	1447 / 1503	"	5.0	2.20	0.73		1.6		.6	9		"
128	8/4	1432 / 1450	"	4.6	1.55	0.39		0.60		.6	9		"
129	8/18	1416 / 1426	"	3.5	0.89	0.67		0.60		.5 .6	8		"
130	9/1	1515 / 1523	DE VORE - BROOK	3.6	0.92	0.61		0.56		.5	8		"
131	9/15	1500 / 1509	BROOK	3.2	0.74	0.64		0.47		.5	8		"
132	9/29	1452 / 1500	"	3.5	0.79	0.56		0.44		.5	8		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN GABRIEL RIVER below Metropolitan Aqueduct										
75	7/14	1335 / 1340	BOWMAN	1.2	0.10	2.80		0.28		.5	7		FC48
76	8/6	1012 / 1028	ROY-MEYER	19.3	24.8	0.46		11.5		.6	12		FC51
77	8/6	1035 / 1058	" "	19.3	23.6	0.45		10.8		.6	20		"
			FISH CANYON SPREADING GROUNDS INTAKE										
126	10/8	1330 / 1342	HOLLERON	8.5	2.47	1.86		4.6		.5	12		FC48
127	11/5	1134 / 1148	"	8.5	3.04	2.04		6.2		.6	15		"
128	11/19	1041 / 1049	"	3.8	1.94	0.98		1.9		.6	8		"
129	12/10	1345 / 1355	BOWMAN	4.0	2.40	0.83		2.0		.5	9		"
130	1/7	1218 / 1228	HOLLERON	4.0	2.46	0.89		2.2		.6	11		"
131	1/21	1440 / 1450	"	6.7	3.97	1.66		6.6		.6	12		FC56
132	2/4	1634 / 1644	"	10.0	4.83	1.62		7.8		.6	12		"
133	2/25	1250 / 1300	"	9.6	4.99	1.42		7.1		.6	11		"
134	3/10	1055 / 1105	BOWMAN	10.0	4.97	1.30		6.5		.5 .6	11		FC48
135	3/17	1135 / 1155	COOK - BOWMAN	9.0	4.94	1.24		5.9		.5 .6	12		FC6
136	3/24	1350 / 1406	WALTER - HOLLERON	10.0	5.70	1.54		8.8		.6	11		FC56
137	3/31	1045 / 1055	HOLLERON	9.5	4.33	1.20		5.2		.6	10		"
138	4/14	1335 / 1345	"	8.1	3.29	0.94		3.1		.6	10		FC48
139	4/21	1400 / 1410	"	8.4	3.48	0.86		3.0		.6	10		"
140	5/5	1455 / 1505	"	9.0	4.34	1.18		5.1		.6	10		"
141	5/26	1330 / 1340	BOWMAN - HOLLERON	8.3	3.88	0.98		3.8		.6	10		"
142	6/2	1338 / 1350	BOWMAN	8.5	3.62	0.86		3.1		.5 .6	11		"
143	6/9	1120 / 1130	"	8.5	4.08	1.00		4.1		.5 .6	11		"
144	6/16	1240 / 1250	"	8.5	3.57	1.06		3.8		.5 .6	11		FC12
145	6/23	1310 / 1320	"	8.5	3.70	1.00		3.7		.5 .6	11		FC48
146	6/30	1350 / 1402	BOWMAN - BLAKELY	8.5	3.44	0.92		3.2		.5 .6	11		"
147	7/7	1320 / 1330	BOWMAN	8.2	3.68	1.12		4.1		.5 .6	11		"
148	7/14	1520 / 1530	"	8.3	3.23	0.93		3.0		.5 .6	10		"
149	7/28	1230 / 1240	"	6.7	2.72	0.77		2.1		.5 .6	10		"
150	8/4	1145 / 1200	"	6.4	2.60	0.69		1.8		.5 .6	8		"
151	8/11	1343 / 1349	BOWMAN - WOOD	8.3	4.60	0.85		3.9		.5 .6	10		"
152	8/18	1440 / 1450	WOOD - BOWMAN	7.0	2.46	0.53		1.3		.5 .6	8		"
153	8/25	1403 / 1412	" "	7.4	2.45	0.49		1.2		.5 .6	10		FC53
154	9/1	1120 / 1130	WOOD - STUNDEN	7.5	1.87	0.48		0.89		.5	10		"
155	9/8	1345 / 1353	WOOD	7.0	2.62	0.61		1.6		.5	8		"
156	9/22	1510 / 1518	"	8.0	2.67	0.82		2.2		.5	9		"
			DUARTE DITCH RETURN at Van Tassel Canyon										
91	10/8	1356 / 1400	HOLLERON	1.4	0.13	0.69		0.09		.5	5		FC48
			LITTLE DALTON WASH below Spreading Area										
38	10/14	0825 / 0830	SARASUA	6.5	2.77	0.32		0.91		.6	9		FC49
39	10/21	0840 / 0850	"	7.5	3.40	0.41		1.4		.6	9		"
40	11/4	0835 / 0840	"	2.5	1.93	0.52		1.0		.6	6		"
41	11/18	0740 / 0750	"	7.0	3.21	0.59		1.9		.6	11		"
42	11/25	0825 / 0830	"	6.5	2.52	0.99		2.5		.6	9		"
43	12/10	1403 / 1407	"	1.0	0.24	0.75		0.18		.6	5		"
44	12/16	0814 / 0828	SARASUA - MC BRIDE	6.5	3.24	0.62		2.0		.6	9		"
45	12/21	1535 / 1540	SARASUA	6.5	0.83	0.60		0.53		.6	6		"
46	12/22	0930 / 0935	"	7.0	0.88	0.68		0.62		.6	8		"
47	1/7	0930 / 0935	"	7.5	1.59	0.45		0.72		.6	9		"
48	1/7	1535 / 1540	"	4.5	0.75	0.41		0.31		.6	7		"
49	1/8	0815 / 0820	"	4.5	0.79	0.53		0.42		.6	8		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN DIMAS CREEK above San Dimas Dam (Inflow)										
136	2/18	0945 / 0950	SARASUA	2.8	0.88	0.82		0.72		.6	7		FC49
137	3/3	1150 / 1155	"	2.5	1.32	0.75		0.99		.6	6		"
138	3/17	1315 / 1325	"	2.5	0.69	0.96		0.66		.6	9		"
139	3/31	1130 / 1135	COOK-SARASUA	3.0	0.96	0.80		0.77		.6	11		"
140	4/21	1510 / 1515	SARASUA	2.2	0.24	0.33		0.08		.6	6		"
			SAN DIMAS CREEK - OLD WATER TUNNEL below San Dimas Dam										
100	10/8	1043 / 1045	SARASUA	0.40	0.04	0.50		0.02		.6	3		FC49
101	10/29	1230 / 1235	"	1.0	0.14	0.21		0.03		.6	4		"
102	12/17	1412 / 1415	"	0.60	0.04	0.25		0.01		.6	4		"
103	3/24	1215 / 1220	"	0.90	0.06	0.33		0.02		.6	5		"
104	6/16	1148 / 1150	"	0.80	0.07	0.43		0.03		.6	4		"
105	7/7	1140 / 1145	"	0.70	0.08	0.37		0.03		.6	5		"
106	8/4	1440 / 1444	MC BRIDE	1.0	0.07	0.29		0.02		.5	4		"
			SAN DIMAS WASH below Puddingstone Diversion Dam at Orange Avenue										
89	12/24	1650 / 1700	SARASUA	16.5	8.94	2.14		19.1		.6	11		FC54
			near Glendora Avenue										
90	1/27	1355 / 1400	SARASUA	0.70	0.09	1.89		0.17		.5	4		FC49
			WALNUT CREEK above Junction with San Gabriel River below Oak Canyon Road (Covina Canal Discharge)										
24	10/14	0955 / 1002	SARASUA	3.0	0.70	1.24		0.87		.6	7		FC49
25	10/28	1140 / 1145	"	3.0	1.18	0.94		1.1		.6	7		"
26	11/4	0915 / 0920	"	3.0	1.17	1.71		2.0		.6	7		"
27	11/10	1305 / 1311	"	4.0	1.04	1.44		1.5		.6	9		"
28	11/18	1020 / 1025	"	2.0	1.11	0.83		0.92		.6	5		"
29	11/25	1110 / 1115	"	3.0	1.45	0.83		1.2		.6	7		"
30	12/16	0925 / 0932	"	4.0	2.06	1.07		2.2		.6	9		"
31	1/28	1445 / 1450	"	3.0	1.31	1.83		2.4		.6	7		"
32	2/24	0910 / 0915	"	3.0	1.40	1.50		2.1		.6	7		"
33	3/30	0820 / 0825	SARASUA-COOK	2.2	1.57	1.85		2.9		.6	8		"
34	5/5	1640 / 1650	SARASUA	3.8	1.83	1.31		2.4		.6	9		"
35	6/15	1000 / 1010	"	3.0	1.57	1.40		2.2		.6	7		"
36	6/23	1655 / 1705	"	4.0	2.81	1.57		4.4		.6	9		"
37	6/27	0900 / 0905	"	3.0	1.28	1.17		1.5		.6	7		"
38	7/6	1620 / 1623	"	1.0	0.15	1.00		0.15		6	5		"
39	7/14	1500 / 1505	"	3.0	2.47	1.18		2.9		.6	7		"
40	7/18	0750 / 0755	"	3.0	0.77	0.83		0.64		.6	7		"
41	7/27	1100 / 1107	"	2.5	1.27	1.02		1.3		.6	6		"
42	8/4	1016 / 1022	MC BRIDE	2.0	0.74	1.62		1.2		.6	6		"
43	8/18	1405 / 1412	SARASUA	1.8	0.66	1.00		0.66		.6	7		"
44	8/22	0747 / 0759	"	3.5	2.21	1.40		3.1		.6	8		"
45	8/23	0945 / 0954	"	3.5	1.93	1.14		2.2		.6	8		"
46	8/24	0720 / 0725	"	3.5	2.20	1.27		2.8		.6	9		"
47	8/24	1745 / 1752	"	3.3	2.48	1.45		3.6		.6	9		"
48	8/25	0835 / 0846	"	3.4	2.14	1.17		2.5		.6	9		"
49	8/25	1630 / 1641	"	3.5	1.79	0.95		1.7		.6	8		"
50	8/26	1015 / 1023	"	3.2	1.67	0.90		1.5		.6	8		"
51	8/31	1310 / 1316	"	3.0	1.46	1.10		1.6		.6	7		"
52	9/28	0745 / 0755	"	2.7	1.05	1.14		1.2		.6	10		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RAT-ING	METH-OD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			BANTA DITCH above San Gabriel River Parkway Bridge										
1	10/1	1330 / 1350	ROY-PETERSEN	10.0	6.11	0.90		5.5		.5 / .6	11		FC51
2	10-29	1400 / 1405	ROY-WALTER	9.0	8.32	1.00		8.3		.6	6		"
3	11/12	1426 / 1432	ROY-PETERSEN	8.0	7.82	0.91		7.1		.6	9		"
4	11/25	1230 / 1245	ROY	8.0	6.96	0.86		6.0		.6	9		"
5	12/16	1430 / 1445	WALTER	9.5	8.92	0.78		7.0		.6	11		FC52
6	12/22	1520 / 1531	WADDICOR	10.0	8.81	0.70		6.2		.6	11		"
			SAN JOSE CREEK at Turnbull Canyon Road										
1	11/5	1015 / 1025	WADDICOR	4.2	3.02	1.06		3.2		.6	7		FC37
			SAN JOSE CREEK below San Jose Channel										
1	2/27	1140 / 1150	ROY	3.5	1.15	1.13		1.3		.6	6		FC48
2	4/14	1325 / 1334	"	4.4	1.87	1.07		2.0		.6	6		FC52
			SAN JOSE CREEK at San Gabriel River Parkway										
1	9/1	1420 / 1425	ROY	3.5	0.57	1.02		0.58		.5	5		FC52
2	9/8	1243 / 1246	"	2.7	0.28	0.68		0.19		.5	4		"
3	9/15	1311 / 1314	"	3.0	0.33	0.79		0.26		.5	4		"
4	9/23	0826 / 0831	"	2.5	0.20	0.55		0.11		.5	5		"
5	9/29	1255 / 1259	"	3.5	0.32	0.50		0.16		.5	5		"
			SAN JOSE CHANNEL at San Gabriel River										
1	1/13	1411 / 1420	WADDICOR	5.8	2.16	1.11		2.4		.6	7		FC37
2	2/25	1315 / 1325	ROY	9.0	3.54	1.02		3.6		.6	10		FC48
3	2/26	0840 / 0852	"	9.0	4.18	1.34		5.6		.6	10		"
4	2/27	0848 / 0906	"	10.0	4.11	1.07		4.4		.5 / .6	11		"
5	2/28	1100 / 1113	"	10.0	4.17	1.15		4.8		.6	11		"
6	4/14	1300 / 1310	ROY	13.0	4.20	0.88		3.7		.5 / .6	9		FC52
			SAN GABRIEL RIVER above Whittier Narrows Dam										
2	11/12	1345 / 1415	ROY-PETERSEN	CHANNELS				174.		.6	35		FC51

DISCHARGE MEASUREMENTS OF SAN GABRIEL RIVER DRAINAGE AREA

AT Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN GABRIEL RIVER WEST FORK above Bear Creek										
224	10/6	1143 / 1157	DE VORE	10.0	1.90	0.53		1.0		.5 .6	11		FC62
225	10/20	1613 / 1621	"	3.1	0.52	0.98		0.51		.5	7		"
226	11/9	1016 / 1023	BROOK	4.9	1.33	1.43		1.9		.5	7		FC22
227	11/23	0932 / 0944	DE VORE	6.4	2.32	0.60		1.4		.5 .6	9		FC62
228	12/8	1100 / 1114	"	6.8	2.28	0.75		1.7		.5 .6	11		"
229	12/22	0940 / 0949	BROOK	7.0	2.35	0.72		1.7		.5 .6	8		"
230	1/5	1310 / 1325	DE VORE	7.3	3.17	0.54		1.7		.6	11		"
231	1/19	1100 / 1116	"	7.8	3.96	0.91		3.6		.6	13		"
232	2/23	1236 / 1253	"	12.6	4.78	0.86		4.1		.5 .6	14		"
233	3/9	1322 / 1332	DE VORE - PENTON	5.6	1.90	0.84		1.6		.5 .6	11		"
234	3/23	0951 / 1006	DE VORE	5.9	2.14	0.75		1.6		.5 .6	11		"
235	4/6	0955 / 1011	"	6.1	2.41	0.66		1.6		.5 .6	12		"
236	4/20	1124 / 1136	"	4.4	1.85	0.65		1.2		.5 .6	10		"
237	5/4	1235 / 1247	DE VORE - LINDSAY	4.5	1.94	0.77		1.5		.6	9		"
238	6/1	1404 / 1417	DE VORE	4.2	1.50	0.73		1.1		.5 .6	10		"
239	6/15	1133 / 1140	BROOK	4.0	1.03	0.38		0.39		.5	8		"
240	6/29	1119 / 1126	"	3.0	0.70	0.40		0.28		.5	7		"
241	7/13	1037 / 1044	DE VORE	2.7	0.39	0.08		0.03		.5	7		"
242	7/27	1115 / 1122	"	1.6	0.21	0.57		0.12		.5	6		"
243	8/10	0944 / 0951	"	1.4	0.14	0.57		0.08		.5	6		"
244	8/23	1117 / 1122	"	1.2	0.10	0.30		0.03		.5	5		"
245	9/13	1122 / 1128	"	1.3	0.11	0.45		0.06		.5	5		"
246	9/27	1335 / 1343	"	1.7	0.25	0.76		0.19		.5	7		"
			BEAR CREEK above Junction with San Gabriel River - West Fork										
215	10/6	1242 / 1252	DE VORE	2.4	0.39	1.03		0.40		.5	7		FC62
216	10/20	1547 / 1557	"	3.3	0.70	1.09		0.76		.5 .6	9		"
217	11/9	0956 / 1003	BROOK	7.0	1.95	2.92		5.7		.5	8		FC22
218	11/23	0913 / 0923	DE VORE	9.1	1.79	2.34		4.2		.5	10		"
219	12/8	1123 / 1131	"	9.5	2.06	2.33		4.8		.5 .6	11		FC62
220	12/22	0911 / 0922	BROOK	7.1	1.77	1.92		3.4		.5 .6	9		FC35
221	1/5	1332 / 1342	DE VORE	9.2	2.01	1.84		3.7		.5 .6	10		FC62
222	1/19	1124 / 1135	"	7.6	1.81	1.93		3.5		.5 .6	9		"
223	2/23	1303 / 1312	"	8.6	1.86	2.04		3.8		.5	11		"
224	3/9	1339 / 1350	DE VORE - PENTON	8.0	1.69	1.89		3.2		.5 .6	10		"
225	3/23	0928 / 0940	DE VORE	8.2	1.85	1.73		3.2		.5 .6	10		"
226	4/6	0927 / 0944	"	8.7	1.93	1.61		3.1		.5 .6	13		"
227	4/20	1144 / 1156	"	7.4	1.47	1.70		2.5		.5	10		"
228	5/4	1252 / 1303	DE VORE - LINDSAY	7.7	1.52	1.58		2.4		.5	10		"
229	6/1	1426 / 1436	DE VORE	7.3	1.29	1.24		1.6		.5	9		"
230	6/15	1147 / 1155	BROOK	3.4	0.71	0.99		0.70		.5	8		"
231	6/29	1141 / 1150	"	3.2	0.55	0.58		0.32		.5	8		"
232	7/13	1018 / 1026	DE VORE	2.7	0.37	0.65		0.24		.5	8		"
233	7/27	1128 / 1137	"	1.8	0.16	0.56		0.09		.5	8		"
234	8/10	0959 / 1009	"	2.6	0.48	1.12		0.54		.5	8		"
235	8/23	1126 / 1137	"	2.5	0.42	0.91		0.38		.5	8		"
236	9/13	1132 / 1140	"	1.8	0.26	0.73		0.19		.5	7		"
237	9/27	1348 / 1355	"	2.2	0.28	0.68		0.19		.5	7		"
			SAN GABRIEL RIVER - NORTH FORK above Junction with West Fork										
231	10/6	1318 / 1332	DE VORE	5.9	2.22	0.63		1.4		.5 .6	10		FC62
232	10/20	0838 / 0852	"	6.1	2.72	0.59		1.6		.6	12		"
233	11/9	0930 / 0940	BROOK	6.5	2.36	2.12		5.0		.5 .6	8		FC22
234	11/23	0848 / 0858	DE VORE	4.6	1.70	2.35		4.0		.5 .6	8		"
235	12/8	1256 / 1306	"	4.8	1.67	2.10		3.5		.5 .6	10		FC62
236	12/22	0851 / 0901	BROOK	4.7	1.64	1.46		2.4		.5 .6	8		"
237	1/5	1356 / 1406	DE VORE	4.8	1.71	1.70		2.9		.5 .6	10		"
238	1/19	1245 / 1257	"	5.1	2.07	1.55		3.2		.6	11		"
239	2/23	1331 / 1340	"	3.9	1.49	2.35		3.5		.6	9		"
240	3/9	1404 / 1414	DE VORE - PENTON	3.8	1.49	2.01		3.0		.5 .6	9		"
241	3/23	0856 / 0908	DE VORE	3.8	1.65	2.00		3.3		.5 .6	9		"
242	4/6	0855 / 0909	"	4.1	1.78	1.97		3.5		.5 .6	11		"
243	4/20	1311 / 1323	"	4.0	1.37	2.04		2.8		.5 .6	9		"
244	5/4	1320 / 1333	DE VORE - LINDSAY	4.1	1.52	2.04		3.1		.5 .6	11		"
245	5/4	1400 / 1413	" "	5.7	1.27	2.13		2.7		.5 .6	12		"
246	5/18	0949 / 1002	DE VORE	4.9	1.25	1.84		2.3		.5 .6	10		"
247	5/18	1022 / 1036	"	5.9	1.32	1.97		2.6		.5	12		"
248	5/18	1049 / 1103	"	4.2	1.56	1.86		2.9		.5 .6	10		"
249	6/8	1053 / 1112	"	5.1	1.37	1.46		2.0		.5 .6	14		"
250	6/8	1126 / 1140	"	7.0	1.37	1.97		2.7		.5	13		"
251	6/8	1254 / 1309	"	4.1	1.34	1.87		2.5		.5 .6	12		"
252	6/15	1221 / 1230	BROOK	4.6	1.28	1.02		1.3		.5	10		"
253	6/22	1205 / 1217	"	5.0	1.78	0.79		1.4		.5	11		"
254	6/22	1253 / 1308	"	5.2	1.71	0.94		1.6		.5	11		"
255	6/22	1348 / 1400	"	3.8	1.21	1.24		1.5		.5	9		"
256	6/29	1221 / 1233	"	5.0	1.95	0.62		1.2		.5 .6	10		"
257	6/29	1317 / 1327	"	4.8	1.94	0.72		1.4		.5 .6	10		"
258	6/29	1350 / 1400	"	4.0	1.14	1.40		1.5		.5 .6	9		"
259	7/6	1145 / 1155	"	4.2	1.43	0.98		1.4		.5 .6	9		"
260	7/6	1225 / 1235	"	4.6	1.30	1.23		1.6		.5 .6	10		"
261	7/6	1322 / 1332	"	3.8	1.17	1.28		1.5		.5 .6	9		"
262	7/13	0950 / 1001	DE VORE	4.4	1.45	1.38		2.0		.5 .6	9		"
263	7/27	1242 / 1255	"	3.9	1.20	1.33		1.6		.5 .6	11		"
264	7/27	1306 / 1321	"	4.5	1.13	1.24		1.4		.5 .6	12		"
265	7/27	1339 / 1352	"	4.4	1.17	0.94		1.1		.5 .6	12		"
266	8/10	0909 / 0923	"	4.1	1.23	1.38		1.7		.5 .6	11		"
267	8/22	1438 / 1452	"	4.7	1.11	0.99		1.1		.5 .6	12		"
268	8/22	1510 / 1525	"	4.8	1.07	1.40		1.5		.5 .6	12		"
269	8/22	1537 / 1550	"	4.0	1.13	1.42		1.6		.5 .6	11		"
270	9/13	1245 / 1254	"	4.1	1.10	1.27		1.4		.5 .6	11		"
271	9/27	1418 / 1430	"	4.7	1.01	0.88		0.89		.5	10		"
272	9/27	1446 / 1457	"	4.7	0.85	1.18		1.0		.5	10		"
273	9/27	1509 / 1523	"	4.1	1.08	1.11		1.2		.5 .6	11		"
			SAN GABRIEL RIVER - Cattle Canyon above East Fork										
133	10/13	1511 / 1522	DE VORE	4.3	1.26	0.87		1.1		.6	9		FC62
134	10/27	1427 / 1437	"	4.4	1.48	0.57		0.85		.6	9		"
135	11/17	1531 / 1540	"	6.1	2.23	1.21		2.7		.6	11		"
136	12/1	1435 / 1444	"	5.9	2.00	1.05		2.1		.5 .6	10		FC22
137	12/15	1420 / 1430	"	6.4	2.98	0.97		2.9		.6	12		FC62
138	12/29	1322 / 1330	BROOK	6.0	2.98	0.91		2.7		.5	7		"
139	1/12	1429 / 1443	DE VORE	6.3	2.80	0.89		2.5		.6	12		"
140	2/2	1444 / 1453	"	6.6	3.36	0.74		2.5		.6	8		FC22
141	2/9	1452 / 1500	CONNER - DE VORE	6.6	3.29	0.73		2.4		.6	8		FC62
142	3/2	1540 / 1550	DE VORE	6.3	2.95	0.64		1.9		.6	8		"
143	3/16	1514 / 1528	"	6.3	3.00	0.67		2.0		.6	12		"
144	3/30	1502 / 1514	"	6.0	2.41	0.87		2.1		.6	11		"
145	4/13	1428 / 1441	"	5.9	2.16	0.83		1.8		.6	11		"
146	4/27	1512 / 1524	"	5.5	1.92	0.78		1.5		.5 .6	10		"
147	5/11	1357 / 1403	BROOK	6.0	2.90	0.48		1.4		.6	8		"
148	5/25	1540 / 1552	DE VORE	5.5	1.81	0.61		1.1		.5 .6	10		"
149	6/8	1515 / 1526	"	5.3	1.75	0.57		1.0		.5 .6	10		"
150	6/22	1515 / 1522	BROOK	2.9	0.70	0.51		0.36		.5	7		"
151	7/6	1509 / 1516	"	2.8	0.60	0.43		0.26		.5	7		"
152	7/20	1518 / 1525	DE VORE	2.7	0.43	0.44		0.19		.5	7		"
153	8/3	1442 / 1452	"	2.5	0.37	0.38		0.14		.5	8		"
154	8/17	1503 / 1513	"	2.0	0.33	0.48		0.16		.5	8		"
155	9/7	1527 / 1537	"	2.4	0.38	0.26		0.10		.5	8		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN GABRIEL-AZUSA CONDUIT at Morris Dam										
29	8/11	1014 / 1020	DE VORE - KEIM	0.9	0.08	0.62		0.05		.5	6		FC62
30	8/11	1029 / 1035	" "	0.9	0.08	0.62		0.05		.5	6		"
31	9/5	1335	" "					0.04	VOLUMETRIC				
			SAN GABRIEL RIVER below Metropolitan Aqueduct										
78	5/3	1500 / 1535	WOOD	18.0	28.0	0.74		20.6		.2 .8	11		FC57
79	5/4	1528 / 1602	"	18.5	29.7	0.74		21.9		.2 .8	12		"
80	5/8	0936 / 0958	WOOD-STUNDEN	17.7	27.6	0.76		21.0		.2 .8	11		"
81	5/8	1005 / 1027	" "	17.7	27.6	0.77		21.2		.2 .8	11		FC53
82	5/10	1528 / 1555	WOOD	18.0	28.1	0.76		21.4		.2 .8	12		FC57
83	5/12	1220 / 1246	"	17.9	28.2	0.74		21.0		.2 .8	12		"
84	5/15	0923 / 0948	"	17.9	27.8	0.74		20.6		.2 .8	12		"
85	5/15	1258 / 1323	"	17.7	27.0	0.68		18.2		.2 .8	12		"
86	5/17	1457 / 1520	"	17.7	26.1	0.66		17.3		.2 .8	12		"
87	5/19	1056 / 1121	"	17.7	26.2	0.67		17.5		.2 .8	12		"
88	5/22	1216 / 1241	"	17.7	26.2	0.67		17.5		.2 .8	12		"
89	5/24	1218 / 1241	"	17.7	26.4	0.69		18.1		.2 .8	12		"
90	5/26	0924 / 0948	"	17.7	26.2	0.69		18.1		.2 .8	12		"
91	5/29	1408 / 1431	"	17.7	26.4	0.69		18.2		.2 .8	12		"
92	5/31	0942 / 1008	"	17.7	26.4	0.67		17.7		.2 .8	12		"
93	6/2	0952 / 1017	"	17.7	26.4	0.67		17.7		.2 .8	12		"
94	6/8	1533 / 1600	"	17.7	26.3	0.68		17.9		.2 .8	12		"
95	6/15	1454 / 1519	"	17.7	26.3	0.69		17.8		.2 .8	12		"
96	6/22	1419 / 1442	"	17.7	26.1	0.69		18.0		.2 .8	12		"
97	6/29	1425 / 1451	"	17.7	26.5	0.68		18.1		.2 .8	12		"
98	7/6	1416 / 1446	"	17.7	26.4	0.71		18.7		.2 .8	12		"
99	7/13	1013 / 1038	"	17.7	26.0	0.68		17.7		.2 .8	12		"
100	7/19	1225 / 1247	"	17.7	26.4	0.69		18.3		.2 .8	12		"
101	7/27	1530 / 1602	"	17.7	26.2	0.72		18.8		.2 .8	12		"
102	8/7	1414 / 1441	"	17.7	26.5	0.70		18.6		.2 .8	12		"
103	8/9	1425 / 1457	"	17.7	26.4	0.68		18.0		.2 .8	12		"
104	8/16	1129 / 1156	DE VORE - STUNDEN	18.2	27.1	0.69		18.6		.2 .8	12		FC62
105	8/23	1400 / 1427	FALCONE-WOOD	17.7	25.2	0.68		17.1		.2 .8	11		FC53
106	8/31	1458 / 1525	WOOD	17.9	25.6	0.67		17.0		.2 .8	12		"
107	9/7	1438 / 1511	"	17.8	25.7	0.68		17.5		.2 .8	12		"
108	9/11	1423 / 1448	"	17.8	25.7	0.70		17.8		.2 .8	12		"
109	9/13	1412 / 1440	"	17.8	24.9	0.63		15.7		.2 .8	12		"
110	9/21	1319 / 1345	"	17.8	24.8	0.65		16.1		.2 .8	12		"
111	9/28	1140 / 1212	"	17.8	25.0	0.66		16.4		.2 .8	12		"
			SAN GABRIEL RIVER below Rogers Canyon										
43	11/17	1532 / 1543	WOOD	20.0	16.5	1.34		22.1		.6	10		FC57
44	11/17	1554 / 1604	"	32.0	16.8	1.76		29.5		.5 .6	11		"
			FISH CANYON SPREADING GROUNDS INTAKE										
157	10/13	1413 / 1421	WOOD	7.0	1.87	0.59		1.1		.5	8		FC53
158	11/3	1422 / 1426	"	8.1	2.60	0.77		2.0		.5	6		"
159	11/17	1328 / 1340	"	10.0	5.30	1.49		7.9		.5 .6	11		FC57
160	12/1	1625 / 1635	"	10.0	3.67	1.25		4.6		.5 .6	11		"
161	12/8	1352 / 1400	"	9.0	3.82	1.34		5.1		.5 .6	10		"
162	12/15	1440 / 1450	"	9.6	3.50	1.20		4.2		.5 .6	11		"
163	12/22	1531 / 1541	"	9.2	3.62	1.25		4.5		.5	10		"
164	12/29	1345 / 1355	"	9.5	3.44	1.08		3.7		.5	11		"
165	1/6	1020 / 1030	"	10.0	4.39	1.16		5.1		.5 .6	11		"
166	1/14	1433 / 1447	FALCONE	10.2	7.94	0.45		3.6		.6	8		"
167	1/19	1506 / 1520	WOOD	10.0	4.49	0.91		4.1		.5 .6	11		"
168	1/26	1030 / 1039	WOOD-BROOK	10.5	5.78	0.80		4.6		.6	11		"
169	2/2	1458 / 1508	WOOD	10.3	5.85	0.86		5.1		.5 .6	11		"
170	2/9	1450 / 1503	"	10.0	6.25	0.86		5.3		.5 .6	11		"
171	2/16	1520 / 1530	BROOK-WOOD	10.5	6.47	0.66		4.3		.5 .6	12		"
172	2/24	1520 / 1532	WOOD	10.2	5.27	0.61		3.2		.5 .6	11		"
173	3/2	1539 / 1554	FALCONE-WOOD	11.4	7.87	0.68		5.3		.5 .6	11		FC53
174	3/9	1600 / 1610	FRAZELLE-WOOD	10.5	7.05	0.68		4.8		.5 .6	11		"
175	3/17	0810 / 0824	" "	10.0	8.08	0.61		4.9		.5 .6	11		"
176	3/23	1354 / 1404	WOOD	11.1	7.68	0.59		4.5		.6	12		"
177	3/30	1610 / 1623	PETERSEN-WOOD	10.0	8.27	0.58		4.8		.5 .6	11		FC57
178	4/6	1627 / 1637	WOOD	9.7	3.30	0.73		2.4		.5 .6	11		FC53
179	4/13	1433 / 1443	"	10.6	5.88	0.51		3.0		.5 .6	12		"
180	4/20	1536 / 1548	PENTON-WOOD	5.2	1.15	0.32		0.37		.5	11		"
181	4/27	1436 / 1445	WOOD	7.8	1.57	0.96		1.5		.5	9		"
182	5/4	1416 / 1424	"	3.6	0.69	1.29		0.89		.5	8		"
183	5/11	1320 / 1326	"	3.0	0.35	0.83		0.29		.5	7		"
184	5/18	1449 / 1457	"	3.6	0.99	1.42		1.4		.5	8		"
185	6/1	1613 / 1620	"	3.5	0.69	0.99		0.68		.5	8		"
186	7/20	1703 / 1713	"	2.6	0.53	1.24		0.66		.5	6		"
187	8/3	1710 / 1715	"	2.0	0.10	0.50		0.05		.5	6		"
188	8/10	1334 / 1340	"	3.5	0.71	1.38		0.98		.5	6		"
189	8/17	1339 / 1345	"	2.5	0.40	0.97		0.39		.5	6		"
190	8/24	1445 / 1453	"	3.0	0.41	1.22		0.50		.5	7		"
191	8/31	1412 / 1418	"	3.1	0.51	1.26		0.64		.5	7		"
192	9/13	1315 / 1323	"	3.3	0.50	1.10		0.55		.5	8		"
193	9/28	0940 / 0947	"	3.0	0.40	0.80		0.32		.5	7		"
			SAN DIMAS CREEK above San Dimas Dam (Inflow)										
141	11/23	1135 / 1220	SARASUA	3.0	0.40	1.93		0.77		.6	7		FC54
142	2/2	1420 / 1430	"	4.0	0.53	2.08		1.1		.6	7		FC49
143	3/16	1410 / 1415	SARASUA-PETERSEN	2.6	0.46	1.28		0.59		.6	7		"
			SAN DIMAS CREEK-OLD WATER TUNNEL below San Dimas Dam										
107	2/2	1515 / 1518	SARASUA	0.6	0.10	0.40		0.04		.6	4		FC49
108	3/2	1205 / 1210	"	0.6	0.12	0.66		0.08		.6	4		"
109	3/9	1145 / 1150	"	0.6	0.12	0.42		0.05		.6	4		"
110	3/23	1325 / 1330	"	0.4	0.08	1.00		0.08		.6	4		"
111	3/30	1315 / 1317	"	0.5	0.12	0.75		0.09		.6	4		"
112	4/13	1235 / 1240	"	0.8	0.08	0.50		0.04		.6	5		"
113	4/20	1340 / 1345	"	1.0	0.10	0.70		0.07		.6	5		"
114	4/27	1320 / 1325	"	1.0	0.10	0.50		0.05		.6	5		"
115	5/11	1220 / 1225	"	0.7	0.07	0.86		0.06		.6	4		"
116	6/1	1215 / 1220	"	0.6	0.12	0.67		0.08		.6	4		"
117	6/8	1225 / 1230	"	1.0	0.12	0.42		0.05		.6	4		"
118	6/15	1310 / 1315	"	0.7	0.16	0.87		0.14		.6	5		"
119	6/22	1238 / 1243	"	0.6	0.09	0.89		0.08		.6	4		"
120	6/29	1215 / 1220	"	0.7	0.07	0.71		0.05		.6	5		"
121	7/24	1104 / 1108	MC BRIDE	0.8	0.16	0.44		0.07		.5	3		"
122	7/27	1355 / 1359	"	0.8	0.15	0.67		0.10		.5	3		"
123	8/3	1202 / 1205	SARASUA	0.5	0.37	0.22		0.08		.6	6		"
124	8/10	1150 / 1155	"	0.6	0.12	0.67		0.08		.6	4		"
125	8/17	1535 / 1540	"	0.6	0.11	0.73		0.08		.6	4		"
126	8/23	1130 / 1135	"	0.8	0.08	0.50		0.04		.5	5		"
127	8/31	1540 / 1545	"	0.7	0.15	0.40		0.06		.6	5		"
128	9/7	1315 / 1320	"	0.7	0.14	0.71		0.10		.6	4		"
129	9/14	1210 / 1215	"	0.7	0.09	0.56		0.05		.6	5		"
130	9/21	1300 / 1304	"	0.8	0.08	0.75		0.06		.6	5		"
131	9/28	1540 / 1545	"	0.8	0.08	0.63		0.05		.6	5		"

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			WALNUT CREEK above Junction with San Gabriel River										
			below Oak Canyon Road (Covina Canal Discharge)										
53	10/20	0900 / 0910	SARASUA	3.5	2.02	1.64		3.3		.6	8		FC49
54	10/25	1250 / 1259	"	3.7	1.69	1.36		2.3		.6	9		"
55	10/31	1420 / 1427	"	3.5	1.83	1.64		3.0		.6	8		"
56	1/4	1520 / 1530	"	4.0	2.79	1.11		3.1		.6	9		"
57	1/18	1655 / 1700	"	2.5	0.77	0.34		0.26		.6	6		"
58	4/17	1550 / 1600	"	4.5	1.31	0.91		1.2		.6	10		"
59	6/26	1235 / 1240	"	3.0	0.86	0.72		0.62		.6	7		"
			SANTA DITCH above San Gabriel River Parkway Bridge										
7	10/7	0855 / 0900	ROY	3.4	0.58	0.97		0.56		.5	5		FC52
8	10/13	1400 / 1408	"	5.0	1.50	1.10		1.7		.5/.6	6		"
9	10/20	1410 / 1417	"	5.0	1.32	1.33		1.8		.5/.6	6		"
10	10/27	1430 / 1436	"	6.0	1.34	1.48		2.0		.5/.6	6		"
11	1/12	1350 / 1402	"	12.5	7.55	0.98		7.4		.6	9		"
12	3/3	0923 / 0938	"	CHANNELS				7.0		.5/.6	11		FC51
13	3/6	1040 / 1052	"		"			8.6		.5/.6	11		"
14	3/13	0945 / 0956	"	5.5	2.94	2.21		6.5		.6	6		"
15	4/6	1447 / 1459	PETERSEN-ROY	7.5	5.11	0.62		3.2		.6	9		FC52
16	4/13	1450 / 1500	ROY	10.0	4.18	1.08		4.5		.5/.6	7		"
17	4/18	1315 / 1327	"	6.0	2.58	1.20		3.1		.5/.6	7		"
18	4/20	1440 / 1446	"	6.0	2.41	1.37		3.3		.5/.6	7		"
19	4/27	1402 / 1408	"	5.6	2.47	1.34		3.3		.5/.6	7		"
20	5/4	1506 / 1511	"	4.5	1.98	1.25		2.5		.5/.6	6		"
21	5/11	1455 / 1502	"	5.0	1.91	1.00		1.9		.5/.6	6		"
22	5/18	1448 / 1455	ROY-BITTEN	5.0	2.23	0.83		1.8		.5/.6	6		"
23	5/24	1425 / 1429	ROY	4.0	1.58	0.88		1.4		.6	5		"
24	6/8	1602 / 1608	"	4.3	1.90	0.95		1.8		.6	6		"
25	6/15	1515 / 1523	"	6.0	3.59	0.99		3.6		.6	7		"
26	6/22	1450 / 1457	"	5.0	2.08	0.83		1.7		.5/.6	6		"
27	6/29	1400 / 1405	"	4.0	1.48	0.54		0.80		.6	5		"
28	7/6	0833 / 0838	"	5.0	2.29	0.88		2.0		.6	6		"
29	7/7	1000 / 1005	"	3.6	1.16	0.97		1.1		.5/.6	5		"
30	7/13	1445 / 1450	"	3.5	1.01	0.91		0.92		.5/.6	5		"
31	7/14	0807 / 0811	"	3.5	0.90	0.87		0.78		.5/.6	5		"
32	7/20	1430 / 1435	"	3.3	0.73	0.80		0.58		.5	5		FC51
33	7/21	0752 / 0756	"	3.5	0.78	0.87		0.68		.5	5		FC52
			SAN JOSE CREEK at San Gabriel River Parkway										
6	10/13	1345 / 1350	ROY	4.0	0.82	1.34		1.1		.5	5		FC52
7	10/20	1325 / 1331	"	4.0	0.90	1.39		1.2		.5/.6	5		"
8	10/27	1355 / 1400	"	4.0	0.92	1.23		1.1		.6	5		"
9	11/10	1423 / 1430	"	5.5	2.06	2.93		6.0		.6	6		"
10	11/21	1500 / 1507	"	5.0	1.44	1.80		2.6		.5/.6	6		FC51
11	11/23	1318 / 1326	"	5.0	1.38	2.46		3.4		.6	6		FC52
12	12/1	1456 / 1503	"	5.5	2.28	2.07		4.7		.6	6		"
13	12/3	1436 / 1443	"	6.0	2.86	2.10		6.0		.6	7		FC51
14	12/7	1136 / 1142	ROY-COOK	5.8	2.66	1.89		5.0		.5/.6	7		"
15	12/12	1138 / 1146	CONNER-ROY	5.2	1.80	3.06		5.5		.6	6		"
16	12/15	0839 / 0846	" "	5.2	1.74	3.44		6.0		.6	6		"
17	12/16	1436 / 1446	" "	5.2	1.83	3.55		6.5		.5/.6	6		"
18	12/19	0810 / 0816	ROY	5.0	1.63	3.12		5.1		.6	6		"
19	12/22	1232 / 1241	"	6.0	2.80	2.32		6.5		.6	7		"
20	12/27	1325 / 1333	"	6.0	2.73	1.90		5.2		.6	7		"
21	1/3	0920 / 0925	ROY-BROOK	5.3	2.27	3.39		7.7		.5/.6	6		"
22	1/4	1502 / 1508	ROY	5.2	1.94	3.40		6.6		.6	6		"
23	1/6	0938 / 0946	"	5.0	1.73	3.12		5.4		.6	6		"
24	1/12	1250 / 1257	"	4.8	1.49	2.72		4.0		.6	6		"
25	1/19	1452 / 1456	FALCONE-ROY	4.5	1.19	0.24		2.9		.6	5		"
26	1/28	1149 / 1158	CONNER-ROY	5.5	2.35	3.87		9.1		.6	6		"
27	1/31	1241 / 1246	ROY-FALCONE	5.5	2.38	3.18		7.6		.6	6		"
28	2/7	1242 / 1251	BROOK-ROY	5.3	2.13	3.75		8.0		.5/.6	7		"
29	3/3	0903 / 0908	ROY	5.0	1.63	2.90		4.7		.6	6		"
30	3/6	1020 / 1026	"	5.0	1.81	3.20		5.8		.6	6		"
31	3/8	1104 / 1108	ROY-FALCONE	4.7	1.47	2.11		3.1		.5	6		"
32	3/13	0920 / 0926	ROY	5.0	1.55	2.52		3.9		.6	6		"
33	3/17	0853 / 0859	"	5.1	1.90	3.16		6.0		.6	6		"
34	4/18	1455 / 1500	"	4.4	1.24	0.70		0.87		.5/.6	6		FC52
35	4/20	1406 / 1410	"	4.5	1.17	0.80		0.93		.5	6		"
			SAN GABRIEL RIVER above Whittier Narrows Dam										
3	11/20	0920 / 0948	ROY	CHANNELS				181.		.5/.6	25		FC51
4	1/17	1225 / 1240	FALCONE-ROY	57.0	65.3	2.28		149.		.6	16		"
5	1/17	1246 / 1257	ROY-FALCONE	55.0	63.4	2.26		143.		.6	16		"
6	4/4	1054 / 1136	ROY-MC BRIDE	CHANNELS				164.		.5/.6	59		"

DISCHARGE MEASUREMENTS OF SAN ANTONIO CANYON DRAINAGE AREA

AT ~~NEAR~~ Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 19 60

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT./PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			DROMEDARY DIVERSION near Old Camp Baldy Road										
10	10/1	1400	SARASUA	1.5 FOOT RECT. WEIR				1.0					
11	10/14	1315	"	"	"	"	"	0.78					
12	10/21	1330	"	"	"	"	"	2.3					
13	10/28	1430	"	"	"	"	"	0.90					
14	11/4	1300	"	"	"	"	"	1.1					
15	11/13	0840	"	"	"	"	"	0.90					
16	11/18	1335	"	"	"	"	"	1.0					
17	11/25	1500	"	"	"	"	"	0.92					
18	12/16	1225	"	"	"	"	"	1.2					
19	12/22	1435	"	"	"	"	"	1.1					
20	12/30	1330	"	"	"	"	"	0.83					
21	1/6	1310	"	"	"	"	"	1.3					
22	1/13	1050	"	"	"	"	"	2.2					
23	1/20	1125	"	"	"	"	"	1.9					
24	1/27	0930	"	"	"	"	"	2.0					
25	2/3	1215	"	"	"	"	"	1.9					
26	2/10	1310	"	"	"	"	"	1.8					
27	2/17	0955	"	"	"	"	"	1.6					
28	2/24	1335	"	"	"	"	"	1.3					
29	3/2	0940	"	"	"	"	"	1.7					

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			DROMEDARY DIVERSION (Continued)										
176	4/6	1420	SARASUA	1.5-FOOT RECT. WEIR				0.15					
177	4/14	1015	"	"	"	"		0.15					
178	4/20	1430	"	"	"	"		0.14					
179	4/27	1110	"	"	"	"		0.35					
180	5/4	0950	"	"	"	"		0.28					
181	5/11	1350	"	"	"	"		0.15					
182	5/18	1225	"	"	"	"		0.16					
183	5/25	1215	"	"	"	"		0.22					
184	6/1	1505	MC BRIDE	"	"	"		0.11					
185	6/8	1400	SARASUA	"	"	"		0.12					
186	6/16	1015	"	"	"	"		0.13					
187	6/22	1535	"	"	"	"		0.09					
188	6/30	0950	"	"	"	"		0.10					
189	7/6	1310	"	"	"	"		0.07					
190	7/13	1455	"	"	"	"		0.07					
191	7/20	1120	"	"	"	"		0.06					
192	7/27	1350	"	"	"	"		0.08					
193	8/3	1424	MC BRIDE	"	"	"		0.07					
194	8/10	1230	SARASUA	"	"	"		0.07					
195	8/17	0940	"	"	"	"		0.05					
196	8/24	1450	"	"	"	"		0.05					
197	9/1	1142	MC BRIDE	"	"	"		0.05					
198	9/7	1325	SARASUA	"	"	"		0.05					
199	9/14	1405	"	"	"	"		0.05					
200	9/21	1020	"	"	"	"		0.05					
			SAN ANTONIO - EDISON CONDUIT at Ontario No. 1 Power House										
146	10/1	1430	SARASUA	9.05 FOOT RECT. WEIR				6.8					
147	10/7	1318	MC BRIDE	"	"	"		6.8					
148	10/14	1340	SARASUA	"	"	"		6.2					
149	10/21	1355	"	"	"	"		6.2					
150	10/28	1550	"	"	"	"		6.2					
151	11/4	1350	"	"	"	"		6.5					
152	11/13	0910	"	"	"	"		6.5					
153	11/18	1440	"	"	"	"		6.5					
154	11/25	1530	"	"	"	"		6.8					
155	12/2	1306	MC BRIDE	"	"	"		6.2					
156	12/9	1143	"	"	"	"		6.2					
157	12/16	1120	SARASUA	"	"	"		6.0					
158	12/22	1515	"	"	"	"		6.2					
159	12/30	1410	"	"	"	"		6.8					
160	1/6	1355	"	"	"	"		6.5					
161	1/13	1125	"	"	"	"		7.9					
162	1/20	1200	"	"	"	"		7.3					
163	1/27	0945	"	"	"	"		7.9					
164	2/3	1300	"	"	"	"		7.9					
165	2/10	1335	"	"	"	"		7.9					
166	2/17	1045	"	"	"	"		7.9					
167	2/24	1350	"	"	"	"		7.9					
168	3/2	1135	"	"	"	"		8.2					
169	3/9	1425	"	"	"	"		8.2					
170	3/16	1145	"	"	"	"		8.2					
171	3/23	1350	"	"	"	"		7.9					
172	3/30	1230	SARASUA-COOK	"	"	"		7.9					
173	4/6	1405	SARASUA	"	"	"		7.9					
174	4/14	1010	"	"	"	"		7.6					
175	4/20	1425	"	"	"	"		7.4					
176	4/27	1105	"	"	"	"		9.4					
177	5/4	0945	"	"	"	"		8.8					
178	5/11	1340	"	"	"	"		7.9					

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATING	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			SAN ANTONIO-EDISON CONDUIT (Continued)										
30	3/9	1345	SARASUA	9.05 FOOT RECT. WEIR				1.6					
31	3/16	1110	"	"	"	"		1.4					
32	3/23	1215	"	"	"	"		1.3					
33	3/30	1200	"	"	"	"		1.3					
34	4/6	1315	"	"	"	"		1.2					
35	4/14	0940	"	"	"	"		1.3					
36	4/20	1355	"	"	"	"		1.0					
37	4/27	1030	"	"	"	"		1.8					
38	5/4	0930	"	"	"	"		1.7					
39	5/11	1220	"	"	"	"		1.1					
40	5/18	1140	"	"	"	"		1.1					
41	5/25	1140	"	"	"	"		1.1					
42	6/1	1452	MC BRIDE	"	"	"		0.78					
43	6/8	1310	SARASUA	"	"	"		0.90					
44	6/15	1630	"	"	"	"		0.59					
45	6/22	1500	"	"	"	"		0.59					
46	6/30	0940	"	"	"	"		0.66					
47	7/6	1245	"	"	"	"		0.59					
48	7/13	1435	"	"	"	"		0.52					
49	7/20	1105	"	"	"	"		0.51					
50	7/27	1330	"	"	"	"		0.45					
51	8/3	1315	MC BRIDE	"	"	"		0.29					
52	8/10	1220	SARASUA	"	"	"		0.45					
53	8/18	0915	"	"	"	"		0.55					
54	8/24	1355	"	"	"	"		0.51					
55	9/1	1055	MC BRIDE	"	"	"		0.48					
56	9/7	1305	SARASUA	"	"	"		0.42					
57	9/14	1355	"	"	"	"		0.35					
58	9/21	0945	"	"	"	"		0.48					
59	9/28	1350	"	"	"	"		0.38					
			EVEY CREEK - CITY OF POMONA DIVERSION (CANYON WATER CO. DIVERSION) at Mouth of Canyon										
149	10/1	1445	SARASUA	90° V NOTCH WEIR				0.13					
150	10/7	1335	MC BRIDE	"	"	"		0.12					
151	10/14	1400	SARASUA	"	"	"		0.12					
152	10/21	1410	"	"	"	"		0.12					
153	10/28	1600	"	"	"	"		0.13					
154	11/4	1355	"	"	"	"		0.16					
155	11/13	0915	"	"	"	"		0.16					
156	11/18	1445	"	"	"	"		0.15					
157	11/25	1540	"	"	"	"		0.15					
158	12/2	1316	MC BRIDE	"	"	"		0.13					
159	12/9	1206	"	"	"	"		0.16					
160	12/16	1125	SARASUA	"	"	"		0.18					
161	12/22	1520	"	"	"	"		0.18					
162	12/30	1415	"	"	"	"		0.19					
163	1/6	1400	"	"	"	"		0.19					
164	1/13	1145	"	"	"	"		0.30					
165	1/20	1205	"	"	"	"		0.23					
166	1/27	0950	"	"	"	"		0.25					
167	2/3	1305	"	"	"	"		0.28					
168	2/10	1345	"	"	"	"		0.31					
169	2/17	1055	"	"	"	"		0.23					
170	2/24	1355	"	"	"	"		0.22					
171	3/2	1145	"	"	"	"		0.25					
172	3/9	1450	"	"	"	"		0.20					
173	3/16	1155	"	"	"	"		0.26					
174	3/23	1355	"	"	"	"		0.20					
175	3/30	1235	"	"	"	"		0.22					

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			EVEY CREEK - CITY OF POMONA DIVERSION (Continued)										
179	5/18	1210	SARASUA	90° V-NOTCH WEIR				8.8					
180	5/25	1210	"	"	"	"		10.1					
181	6/1	1538	MC BRIDE	"	"	"		8.2					
182	6/8	1355	SARASUA	"	"	"		8.5					
183	6/16	1010	"	"	"	"		8.2					
184	6/22	1530	"	"	"	"		7.3					
185	6/30	0946	"	"	"	"		7.1					
186	7/6	1305	"	"	"	"		6.8					
187	7/13	1450	"	"	"	"		6.2					
188	7/20	1110	"	"	"	"		6.2					
			SAN ANTONIO - EDISON CONDUIT at Ontario No. 1 Power House (Cont'l)										
189	7/27	1340	"	"	"	"		5.4					
190	8/3	1415	MC BRIDE	"	"	"		5.2					
191	8/10	1225	SARASUA	"	"	"		5.4					
192	8/17	0935	"	"	"	"		5.7					
193	8/24	1440	"	"	"	"		5.2					
194	9/1	1132	MC BRIDE	"	"	"		5.2					
195	9/7	1320	SARASUA	"	"	"		5.2					
196	9/14	1400	"	"	"	"		5.0					
197	9/21	1010	"	"	"	"		5.0					
198	9/28	1410	"	"	"	"		4.7					

DISCHARGE MEASUREMENTS OF SAN ANTONIO CANYON DRAINAGE AREA

AT NEAR Miscellaneous Points DURING THE YEAR ENDING SEPTEMBER 30, 19 61

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT. PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	G. HT. CHANGE TOTAL	METER NO.
			DROMEDARY DIVERSION near Old Camp Baldy Road										
60	10/5	1015	SARASUA	1.5 FOOT RECT. WEIR				0.45					
61	10/13	1100	MC BRIDE	"	"	"		0.52					
62	10/19	1310	SARASUA	"	"	"		0.51					
63	10/26	1450	"	"	"	"		0.60					
64	11/2	1410	"	"	"	"		0.55					
65	11/9	1555	"	"	"	"		0.95					
66	11/23	1015	MC BRIDE	"	"	"		0.95					
67	11/30	1135	SARASUA	"	"	"		1.5					
68	12/8	1455	MC BRIDE	"	"	"		0.82					
69	12/14	1035	SARASUA	"	"	"		1.0					
70	12/21	1315	"	"	"	"		1.1					
71	12/28	0940	"	"	"	"		1.1					
72	1/4	1005	"	"	"	"		0.99					
73	1/11	0745	"	"	"	"		1.0					
74	1/18	1105	"	"	"	"		1.0					
75	1/25	1245	"	"	"	"		0.99					
76	2/1	1040	"	"	"	"		1.2					
77	2/8	0850	"	"	"	"		1.2					
78	2/15	1250	"	"	"	"		1.1					
79	3/2	0935	"	"	"	"		0.99					
80	3/8	1420	"	"	"	"		1.1					
81	3/15	1315	"	"	"	"		1.2					
82	3/22	1400	SARASUA-PETERSEN	"	"	"		0.90					
83	3/29	1355	SARASUA	"	"	"		0.99					
84	4/5	1150	SARASUA-WALTER	"	"	"		0.90					
85	4/12	1445	SARASUA	"	"	"		0.86					
86	4/19	1055	"	"	"	"		0.86					
87	4/26	1210	SARASUA	1.5	FOOT RECT. WEIR			0.86					
88	5/3	1040	"	"	"	"		0.82					
89	5/10	1210	"	"	"	"		0.70					
90	5/18	1200	MC BRIDE	"	"	"		0.59					
91	5/24	1530	SARASUA	"	"	"		0.59					
92	6/1	1005	"	"	"	"		0.59					
93	6/8	1335	"	"	"	"		0.63					
94	6/15	1035	"	"	"	"		0.45					
95	6/22	0955	"	"	"	"		0.67					
96	6/28	1340	"	"	"	"		0.34					
97	7/6	1112	MC BRIDE	"	"	"		0.35					
98	7/13	1040	"	"	"	"		0.32					
99	7/20	1306	"	"	"	"		0.29					
100	8/2	1320	SARASUA	"	"	"		0.32					
101	8/9	1450	"	"	"	"		0.35					
102	8/17	1320	"	"	"	"		0.38					
103	8/23	1240	MC BRIDE	"	"	"		0.26					
104	8/30	1400	"	"	"	"		0.26					
105	9/6	1615	SARASUA	"	"	"		0.26					
106	9/14	0910	"	"	"	"		0.32					
107	9/20	1345	"	"	"	"		0.29					
108	9/27	1312	MC BRIDE	"	"	"		0.32					
			EVEY CREEK-CITY OF POMONA DIVERSION (Canyon Water Co. Diversion) at Mouth of Canyon										
202	10/5	1100	SARASUA	90° V-NOTCH WEIR				0.06					
203	10/13	1150	MC BRIDE	"	"	"		0.08					
204	10/19	1335	SARASUA	"	"	"		0.08					
205	10/26	1500	"	"	"	"		0.10					
206	11/2	1340	"	"	"	"		0.09					
207	11/30	1220	"	"	"	"		0.15					
208	12/8	1538	MC BRIDE	"	"	"		0.16					
209	12/14	1110	SARASUA	"	"	"		0.16					
210	12/21	1400	"	"	"	"		0.14					
211	12/28	1015	"	"	"	"		0.14					
212	1/4	1105	"	"	"	"		0.15					
213	1/11	0810	"	"	"	"		0.15					
214	1/18	1130	"	"	"	"		0.14					
215	1/25	1320	"	"	"	"		0.16					
216	2/1	1135	"	"	"	"		0.16					
217	2/8	0935	"	"	"	"		0.16					
218	2/15	1320	"	"	"	"		0.15					
219	2/23	1352	MC BRIDE	"	"	"		0.13					
220	3/2	1005	SARASUA	"	"	"		0.14					
221	3/8	1505	"	"	"	"		0.12					
222	3/15	1110	"	"	"	"		0.15					
223	3/22	1435	SARASUA-PETERSEN	"	"	"		0.11					
224	3/29	1420	SARASUA	"	"	"		0.13					
225	4/5	1220	SARASUA-WALTER	"	"	"		0.14					
226	4/12	1530	SARASUA	"	"	"		0.10					
227	4/19	1545	"	"	"	"		0.12					
228	4/26	1310	"	"	"	"		0.10					
229	5/3	1120	"	"	"	"		0.15					
230	5/10	1300	"	"	"	"		0.10					
231	5/18	1304	MC BRIDE	"	"	"		0.10					
232	5/24	1600	SARASUA	"	"	"		0.08					
233	6/1	1015	"	"	"	"		0.12					
234	6/8	1350	"	"	"	"		0.10					
235	6/15	1110	"	"	"	"		0.07					

NO.	DATE	BEGIN / END	MADE BY	WIDTH FEET	AREA OF SECTION SQ. FT.	MEAN VELOCITY FT.PER SEC.	GAUGE HEIGHT FEET	DISCHARGE SEC. FT.	RATINGS	METHOD	MEAS. SEC. NO.	S. HT. CHANGE TOTAL	METER NO.
			EVEY CREEK - CITY OF POMONA DIVERSION (Continued)										
236	6/22	1010	SARASUA	90° V-NOTCH WEIR				0.06					
237	6/28	1400	"	"	"	"		0.05					
238	7/13	1110	MC BRIDE	"	"	"		0.05					
239	7/20	1316	"	"	"	"		0.04					
240	8/2	1350	SARASUA	"	"	"		0.04					
241	8/9	1520	"	"	"	"		0.04					
242	8/17	1335	"	"	"	"		0.04					
243	8/23	1328	MC BRIDE	"	"	"		0.04					
244	8/30	1440	"	"	"	"		0.04					
245	9/6	1640	SARASUA	"	"	"		0.04					
246	9/14	1030	"	"	"	"		0.03					
247	9/20	1400	"	"	"	"		0.04					
248	9/27	1345	MC BRIDE	"	"	"		0.04					
			SAN ANTONIO-EDISON CONDUIT at Ontario No. I. Power House										
199	10/5	1055	SARASUA	9.05 FOOT RECT. WEIR				5.0					
200	10/13	1136	MC BRIDE	"	"	"		5.0					
201	10/19	1325	SARASUA	"	"	"		0.15					
202	10/26	1455	"	"	"	"		4.7					
203	11/2	1320	"	"	"	"		4.7					
204	11/9	1635	"	"	"	"		5.7					
205	11/23	1136	MC BRIDE	"	"	"		6.0					
206	11-30	1210	SARASUA	"	"	"		6.0					
207	12/8	1528	MC BRIDE	"	"	"		6.0					
208	12/14	1100	SARASUA	"	"	"		6.0					
209	12/21	1345	"	"	"	"		6.0					
210	12/28	1010	"	"	"	"		6.0					
211	1/4	1100	"	"	"	"		6.0					
212	1/11	0810	"	"	"	"		5.7					
213	1/18	1145	"	"	"	"		5.7					
214	1/25	1315	"	"	"	"		5.4					
215	2/1	1130	SARASUA	9.05 FOOT RECT. WEIR				6.0					
216	2/8	0930	"	"	"	"		6.0					
217	2/15	1315	"	"	"	"		5.7					
218	2/23	1332	MC BRIDE	"	"	"		5.7					
219	3/2	1000	SARASUA	"	"	"		5.4					
220	3/8	1500	"	"	"	"		5.4					
221	3/16	1050	"	"	"	"		5.4					
222	3/22	1430	"	"	"	"		5.4					
223	3/29	1415	"	"	"	"		5.4					
224	4/5	1230	SARASUA-WALTER	"	"	"		5.2					
225	4/12	1505	SARASUA	"	"	"		5.0					
226	4/19	1140	"	"	"	"		5.0					
227	4/26	1305	"	"	"	"		5.2					
228	5/3	1110	"	"	"	"		5.0					
229	5/10	1255	"	"	"	"		5.0					
230	5/18	1250	MC BRIDE	"	"	"		4.5					
231	5/24	1555	SARASUA	"	"	"		4.5					
232	6/1	1010	"	"	"	"		5.0					
233	6/8	1340	"	"	"	"		4.2					
234	6/15	1055	"	"	"	"		4.2					
235	6/22	1000	"	"	"	"		4.0					
236	6/28	1350	"	"	"	"		4.0					
237	7/6	1138	MC BRIDE	"	"	"		4.0					
238	7/13	1056	"	"	"	"		3.8					
239	7/20	1312	"	"	"	"		3.8					
240	8/2	1340	SARASUA	"	"	"		3.5					
241	8/9	1515	"	"	"	"		3.3					
242	8/17	1330	"	"	"	"		3.3					
243	8/23	1322	MC BRIDE	"	"	"		3.3					
244	8/30	1430	"	"	"	"		3.3					
245	9/6	1630	SARASUA	"	"	"		3.1					
246	9/14	1020	"	"	"	"		3.1					
247	9/20	1355	"	"	"	"		5.2					
248	9/27	1338	MC BRIDE	"	"	"		3.3					

PERCOLATION LOSSES ON LOS ANGELES RIVER

BASED ON METER MEASUREMENTS

1959-60

DATE	CHATSWORTH CREEK AT SHERMAN WAY	BELL CREEK AT SHOUP AVENUE	LOSS CFS	BELL CREEK AT TOPANGA CANYON BOULEVARD	LOSS CFS	LOS ANGELES RIVER AT MASON AVENUE	GAIN CFS	LOS ANGELES RIVER AT WILBUR BOULEVARD	GAIN CFS	LOS ANGELES RIVER AT RESEDA BOULEVARD	GAIN CFS	LOS ANGELES RIVER BELOW SEPULVEDA DAM	LOSS CFS	REMARKS
7-6	21.6	19.1	2.5	18.3	0.8	20.0	[1] 1.7	20.2	[1] 0.2	24.8	[2] 4.6	22.6	2.2	1. CONCRETE CHANNELS 2. L.A.W.D. WELLS PUMPING INTO WILBUR CHANNEL

PERCOLATION LOSSES ON RIO HONDO

BASED ON METER MEASUREMENTS

1959-60

DATE	ALHAMBRA WASH NEAR KLINGERMAN STREET	ALHAMBRA WASH NEAR RUSH STREET	RIO HONDO BELOW GARVEY AVENUE	RIO HONDO AT ALHAMBRA WASH	GAIN CFS	FLOW 2600' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 2000' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 1000' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 700' ABOVE MISSION BRIDGE	LOSS CFS
10-8	1.2	98.	1.8							104.	3.		
3-8				[2] 2.0						11.7	9.7		
3-9				[3] 2.0		12.0	10.0						
4-21		8.4	2.2							14.6	4.0		
5-3										19.7		18.4	1.3
6-16	0.54	12.4	2.4							17.0	1.7		
7-1		18.4								22.6	4.2		

1959-60 PERCOLATION LOSSES ON RIO HONDO (Continued)

DATE	FLOW 500' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 350' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 250' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 200' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 150' ABOVE MISSION BRIDGE	GAIN CFS	FLOW AT MISSION BRIDGE	(-) LOSS OR (+) GAIN CFS	FLOW 300' BELOW MISSION BRIDGE	GAIN CFS	FLOW 600' BELOW MISSION BRIDGE	GAIN CFS
3-8											13.7	+2.0				
3-9											15.7	+3.7				
4-21											16.2	+1.6				
5-3									19.8	+1.4	20.4	+0.6			21.6	1.2
5-16											11.2					
6-16	17.2	0.2			[6] 19.3	2.1					18.4	-0.9				
7-1			23.5	0.9	[6] 23.6	0.1										

1959-60 PERCOLATION LOSSES ON RIO HONDO (Continued)

DATE	FLOW 1100' BELOW MISSION BRIDGE	LOSS CFS	FLOW AT BYPASS CHANNEL	(-) LOSS OR (+) GAIN CFS	FLOW ABOVE WHITTIER NARROWS DAM	LOSS CFS	FLOW AT RISING WATER CHANNEL BELOW 36" OUTLET STA. F325-R	(-) LOSS OR (+) GAIN CFS	FLOW AT RIO HONDO COASTAL GROUNDS	LOSS CFS	REMARKS
10-8									[1] 70.2	37.6	
4-21			16.9	+0.7	6.6	10.3					1. 3.8 CFS INFLOW FROM MISSION CREEK
5-3	20.9	0.7									2. INCLUDES 0.4 ESTIMATED INFLOW FROM ALHAMBRA WASH
5-16			8.3	-2.9	[5] 2.2	6.1	2.3	+0.1	[4] 1.2	1.2	3. INCLUDES 0.3 ESTIMATED INFLOW FROM ALHAMBRA WASH
7-1			18.6	-5.0			11.1	-7.5			4. ESTIMATE 0.1 INFLOW FROM MISSION CREEK
											5. 4.0 CFS LOSS FROM CUTOFF WALL TO 100' ABOVE DAM
											6. POINT OF MAXIMUM RISING WATER

PERCOLATION LOSSES ON RIO HONDO

BASED ON METER MEASUREMENTS

1960-61

DATE	ALHAMBRA WASH NEAR KLINGERMAN STREET	ALHAMBRA WASH NEAR RUSH STREET	RIO HONDO BELOW GARVEY AVENUE	RIO HONDO AT ALHAMBRA WASH	GAIN CFS	FLOW 2600' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 2000' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 1000' ABOVE MISSION BRIDGE	(-) LOSS OR (+) GAIN CFS	FLOW 700' ABOVE MISSION BRIDGE	GAIN CFS
12-13				1.3				9.7	8.4	9.0	-0.7		
12-14			0.17	0.74				[1] 3.6	2.86	4.6	+1.0		
2-14										4.5.3			
3-21		0.55	0.10							5.1	+4.45		
3-30	0.59		0.29							5.9	+5.02		

1960-61 PERCOLATION LOSSES ON RIO HONDO (Continued)

DATE	FLOW 500' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 350' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 250' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 200' ABOVE MISSION BRIDGE	GAIN CFS	FLOW 150' ABOVE MISSION BRIDGE	GAIN CFS	FLOW AT MISSION BRIDGE	GAIN CFS	FLOW 300' BELOW MISSION BRIDGE	GAIN CFS	FLOW 600' BELOW MISSION BRIDGE	GAIN CFS
12-13											12.4	3.4			8.3	0.7
12-14											[2] 6.3	1.7	7.6	1.3	8.6	1.3
2-14									7.3	2.0					[5] 7.7	0.7
3-21							7.0	1.9							[5] 10.0	3.0
3-30							7.0	1.1								

1960-61 PERCOLATION LOSSES ON RIO HONDO (Continued)

DATE	FLOW 1100' BELOW MISSION BRIDGE	LOSS CFS	FLOW AT WHITTIER NARROWS DAM FLOOD FLOW CHANNEL	(-) LOSS OR (+) GAIN CFS	FLOW ABOVE WHITTIER NARROWS DAM	LOSS CFS	FLOW AT RISING WATER CHANNEL BELOW 36" OUTLET STA. F325-R	LOSS CFS	FLOW AT RIO HONDO COASTAL GROUNDS	LOSS CFS	REMARKS
12-13			12.6	+0.2							1. MEASURED 0.85 CFS 350 FEET BELOW ALHAMBRA WASH
12-14			6.6	-1.7			[3]3.1	3.5			2. MEASURED 100 FEET ABOVE BRIDGE
2-14			7.9	-0.7							3. END OF FLOW AT BEVERLY BOULEVARD
3-21			6.6	-1.1							4. ESTIMATE 1.0 CFS FLOW ABOVE RISING WATER
3-30			7.8	-2.2	END OF FLOW AT SPREADING GROUNDS						5. POINT OF MAXIMUM RISING WATER

PERCOLATION LOSSES ON MISSION CREEK

BASED ON METER MEASUREMENTS

1959-60

DATE	MISSION CREEK BELOW LEGG LAKE	FLOW 1500' ABOVE SAN GABRIEL BOULEVARD	GAIN CFS	FLOW 1000' ABOVE SAN GABRIEL BOULEVARD	GAIN CFS	FLOW 500' ABOVE SAN GABRIEL BOULEVARD	GAIN CFS	FLOW AT SAN GABRIEL BOULEVARD	(+) GAIN OR (-) LOSS CFS	FLOW 100' BELOW ROSEMEAD BOULEVARD	LOSS CFS	FLOW 300' BELOW ROSEMEAD BOULEVARD	LOSS CFS
2-18								4.6					
3-24	0.81							3.5	+2.69				
3-31								3.1					
5-11	1.2			3.2	2.0			2.9	-0.3	2.9	0		
7-5	0.17			[1]1.2	1.03			0.82	-0.38	0.60	0.22		

1959-60 PERCOLATION LOSSES ON MISSION CREEK (Continued)

DATE	FLOW ABOVE WHITTIER NARROWS DAM	LOSS CFS	FLOW BELOW WHITTIER NARROWS DAM	(+) GAIN OR (-) LOSS CFS	FLOW ABOVE STREAMLAND PARK	LOSS CFS	FLOW ABOVE LEXINGTON ROAD	GAIN CFS	FLOW ABOVE RISING WATER CHANNEL	LOSS CFS	REMARKS
2-18			4.6	0					3.2	1.4	1. MAXIMUM RISING WATER
3-24			3.3	-0.2					2.0	1.3	2. ESTIMATE 0.7 CFS INFLOW FROM STREAMLAND PARK
3-31			2.9	-0.2					1.7	1.2	
5-11	2.5	0.4	2.9	+0.4					0.1	2.8	
7-5	0.42	0.18	0.44	+0.02	0.19	0.25	[2]0.89	0.70			

PERCOLATION LOSSES ON MISSION CREEK

BASED ON METER MEASUREMENTS

1960-61

DATE	MISSION CREEK BELOW LEGG LAKE	FLOW 1500' ABOVE SAN GABRIEL BOULEVARD	GAIN CFS	FLOW 1000' ABOVE SAN GABRIEL BOULEVARD	GAIN CFS	FLOW 500' ABOVE SAN GABRIEL BOULEVARD	LOSS CFS	FLOW AT SAN GABRIEL BOULEVARD	GAIN CFS	FLOW 100' BELOW ROSEMEAD BOULEVARD	LOSS CFS	FLOW 300' BELOW ROSEMEAD BOULEVARD	LOSS CFS
10-25	0.62	1.0	0.38			0.64	0.36	0.74	0.10			0.54	0.20

1960-61 PERCOLATION LOSSES ON MISSION CREEK (Continued)

DATE	FLOW ABOVE WHITTIER NARROWS DAM	LOSS CFS	FLOW BELOW WHITTIER NARROWS DAM	LOSS CFS	FLOW ABOVE STREAMLAND PARK	LOSS CFS	FLOW ABOVE LEXINGTON ROAD	GAIN CFS	FLOW ABOVE RISING WATER CHANNEL	LOSS CFS	REMARKS
10-25			0.29	0.25							

PERCOLATION LOSSES ON SAN GABRIEL RIVER

BASED ON METER MEASUREMENTS

1959-60

DATE	SAN GABRIEL RIVER AT MWD OUTLET	FLOW BELOW GARVEY AVENUE	LOSS CFS	FLOW BELOW VALLEY	LOSS CFS	FLOW AT PECK ROAD	LOSS CFS	FLOW ABOVE WHITTIER NARROWS DAM	LOSS CFS	FLOW AT MAXIMUM RISING WATER	GAIN CFS
10-1	202.	171.	31.			169.	2.	150.	19.		
10-8	190.	158.	32.			149.	9.	126.	23.		
10-15	204.	166.	38.			153.	13.	143.	10.		
10-22	207.	175.	32.			157.	18.	140.	17.		
10-29	177.	143.	34.			[2]130.	14.	117.	13.		
11-5	216.	191.	25.			162.	29.	140.	22.		
11-18	242.	206.	36.			194.	12.	189.	5.		
12-30	147.	124.	23.			[6]114.	12.8				
1-20	229.	193.	36.			[8]180.	17.8			[9]204.	22.4
1-28	200.	179.	21.			[10]175.	8.0			182.	7.0
2-18	203.	184.	19.			[11]172.	17.0			[12]177.	5.
3-30	202.	162.	40.			[13]147.	21.2			151.5	4.5

1959-60 PERCOLATION LOSSES ON SAN GABRIEL RIVER (Continued)

DATE	FLOW AT BEVERLY BOULEVARD	LOSS CFS	FLOW AT SAN GABRIEL COASTAL GROUNDS	LOSS CFS	FLOW AT WASHINGTON BOULEVARD	LOSS CFS	FLOW AT SLAUSON AVENUE	LOSS CFS	FLOW AT TELEGRAPH ROAD	LOSS CFS	REMARKS
10-1	134.	16.	109.	25.							1. INCLUDES RISING WATER
10-8	117.	9.	101.	16.							2. 1 CFS INFLOW FROM SAN JOSE CHANNEL
10-15	124.	19.	113.	11.							3. 7 CFS RISING WATER
10-22	[1]·140.	0	114.	26.							4. INCLUDES RISING WATER
10-29	[3]·115.	9.	99.	16.							5. ESTIMATE 6.9 CFS RISING WATER
11-5	[4]·152.		128.	24.							6. 2.8 CFS INFLOW FROM SAN JOSE CHANNEL
11-18	[5]·193.	2.9	156.	37.							7. ESTIMATE 10.1 CFS RISING WATER
12-30			[7]·97.	27.1							8. 4.8 CFS INFLOW FROM SAN JOSE CHANNEL
1-20	188.	16.	161.	27.	END OF FLOW 1200' BELOW WASHINGTON BOULEVARD						9. ESTIMATE 1.6 CFS INFLOW FROM SAN JOSE CREEK
1-28	167.	15.	151.	16.							10. 4 CFS INFLOW FROM SAN JOSE CHANNEL
2-16			102.		67.0	35.0	48.6	18.4	[15]·11.2	37.4	11. 5 CFS INFLOW FROM SAN JOSE CHANNEL
2-18	170.	7.	164.	6.							12. ESTIMATE 12 CFS RISING WATER
2-19			122.		83.1	38.9	68.0	15.1	23.4	44.6	13. 6.2 CFS INFLOW FROM SAN JOSE CHANNEL
2-24			102.		86.2	15.8	71.9	14.3	[16]·26.8	45.1	14. 8.5 CFS DIVERTED INTO BANTA DITCH
3-30	[14]·137.	6.0	113.	24.							15. END OF FLOW 1000' BELOW TELEGRAPH ROAD
											16. END OF FLOW FIRST BASIN BELOW FREEWAY

PERCOLATION LOSSES ON SAN GABRIEL RIVER

BASED ON METER MEASUREMENTS

1960-61

DATE	SAN GABRIEL RIVER AT MWD OUTLET	FLOW BELOW GARVEY AVENUE	LOSS CFS	FLOW BE OW VALLEY	LOSS CFS	FLOW AT PECK ROAD	LOSS CFS	FLOW ABOVE WHITTIER NARROWS DAM	LOSS CFS	INFLOW FROM SAN JOSE CREEK	ESTIMATE OF RISING WATER	FLOW AT MAXIMUM RISING WATER	GAIN CFS
11-14				[1]· 64.2	11.7			[2]· 35.1	29.1	5.4	3.4		
11-15				[1]·125.	8.			88.	37.	4.5	3.5		
11-16				[1]·196.	6.			[3]·176.	20.5	3.7	3.5		
11-17				[1]·237.	17.			[4]·211.	26.5	4.0	3.5		
12-3				[1]· 63.1	19.5			34.9	28.2	[5]·6.0	2.0		
12-3				[1]·125.	31.			73.1	51.9	[5]·6.0	2.0		
12-4				[1]·197.	56.			174.	23.	[5]·6.0	2.0		
12-7				[1]·211.	17.			185.	26.	5.0	3.0		
12-12				[1]·186.	18.			164.	22.	5.5	3.0		
12-14				[1]·177.	31.						[6]· 11.0		
12-20				49.9				29.4	20.5		[6]· 11.0		
12-22				145.				121.	24.	6.5	6.0		
12-27	262.			177.	85.			152.	25.	5.2	6.0		
1-3	249.			161.	88.			138.	23.	7.7	6.3		
1-15	223.			121.	102.			96.4	24.6		4.0		
1-17	228.			144.	84.			114.	30.		[6]· 10.0		
1-18	270.			173.	97.			159.	14.		[6]· 7.0		
1-20	229.			153.	76.			139.	14.		[6]· 7.0		
1-28	190.			[7]·148.	43.5	[8]· 148.	0.5	133.	15.	9.1	4.9		
1-31	290.			[9]·209.	81.2	[10]· 203.	6.4	201.	2.	7.6	6.6		
2-3	215.			161.	54.	143.	18.	129.	14.	6.9	3.5		
2-7	200.			148.	52.	134.	14.	143.	+9.	8.0	6.0		
2-10	197.			151.	46.	125.	26.			7.7	8.3		
2-14	260.			188.	72.	173.	15.				[6]· 16.0		
2-17	250.			175.	75.	167.	8.			7.0	8.0		
2-24	230.			164.	66.	148.	16.			4.0	8.0		
3-2	206.			144.	62.	133.	11.	131.	2.	3.6			
3-8	254.			185.	69.	174.	11.				[6]· 12.0		
3-21	238.			140.	98.	138.	2.	122.	16.		[6]· 12.0		
3-24	260.			185.	75.	171.	14.				[6]·12.0		
3-31	350.			281.	69.			273.	8.		[6]· 10.0		
4-4	260.			191.	69.			189.	2.		[6]· 10.0		
4-12	[12]·190.			131.	59.			125.	6.		6.0		
4-24				184.				181.	3.		2.0		
4-28	228.			171.	57.			145.	26.		3.0		
5-8	220.			175.	45.			155.	20.		3.0		
5-26	225.			180.	45.			154.	26.		2.0		
5-31				207.				182.	25.				
6-5	240.			199.	41.			177.	22.		3.0		
6-7				265.				250.	15.		3.0		
6-12	275.			235.	40.			196.	39.		3.0		
9-11	200.			176.	24.	152.	24.	128.	24.				
9-14	250.			209.	41.			192.	17.				
9-18	350.			[16]·318.	32.			[17]·293.	25.				
9-22	300.			269.	31.			233.	36.				
9-25	295.							235.	60.				
9-28	100.							43.5	56.5				
9-29	180.			156.	24.			121.	35.		1.8		

1960-61 PERCOLATION LOSSES ON SAN GABRIEL RIVER (Continued)

DATE	FLOW AT BEVERLY BOULEVARD	LOSS CFS	FLOW AT SAN GABRIEL COASTAL GROUNDS	LOSS CFS	FLOW AT WASHINGTON BOULEVARD	LOSS CFS	FLOW AT SLAUSON AVENUE	LOSS CFS	FLOW AT TELEGRAPH ROAD	LOSS CFS	FLOW AT SANTA ANA FREEWAY	LOSS CFS	REMARKS
11-14	23.5	20.4					END OF FLOW AT WHITTIER BOULEVARD						1. SEE PERCOLATION LOSSES ON WALNUT WASH
11-15	84.6	11.4											2. ESTIMATE 1.0 CFS INFLOW ABOVE SAN JOSE CHANNEL
11-16	145.	38.2	115.	30.			END OF FLOW 200' ABOVE SLAUSON AVENUE						3. ESTIMATE 0.5 CFS INFLOW
11-17	198.	20.5	160.	38.									4. ESTIMATE 0.5 CFS INFLOW
12-3	12.0	30.9											5. ESTIMATE
12-3	48.9	32.2											6. INCLUDES ESTIMATE OF INFLOW FROM SAN JOSE CREEK
12-4	169.	13.	144.	25.									7. 1.5 INFLOW FROM WALNUT WASH
12-7	171.	22.	166.	5.			END OF FLOW AT FLORENCE AVENUE						8. ESTIMATE 0.5 CFS INFLOW FROM DUCK FARM
12-12	153.	19.5	143.	10.									9. ESTIMATE 0.2 CFS INFLOW FROM WALNUT WASH
12-14	148.	40.	124.	24.									10. ESTIMATE 0.4 CFS INFLOW FROM DUCK FARM
12-20	28.0	12.4											11. 8.6 CFS DIVERTED TO SPREADING GROUNDS
12-22	129.	4.5	105.	24.									12. MEASURED 182 CFS 100' BELOW GAUGE
12-27	159.	4.2	135.	24.									13. ESTIMATE 35 CFS DIVERTED
1-3	144.	8.	133.	11.									
1-15	83.8	16.6	40.7	43.1									
1-17	120.	4.	102.	18.									

1960-61 PERCOLATION LOSSES ON SAN GABRIEL RIVER (Continued)

DATE	FLOW AT BEVERLY BOULEVARD	LOSS CFS	FLOW AT SAN GABRIEL COASTAL GROUNDS	LOSS CFS	FLOW AT WASHINGTON BOULEVARD	LOSS CFS	FLOW AT SLAUSON AVENUE	LOSS CFS	FLOW AT TELEGRAPH ROAD	LOSS CFS	FLOW AT SANTA ANA FREEWAY	LOSS CFS	REMARKS
1-18	156.	10.	140.	16.									14. 30 CFS DIVERTED
1-20	135.	11.	116.	17.									15. 65 CFS DIVERTED
1-28	135.	12.	116.	19.									16. MEAN OF 2 MEASUREMENTS
1-31	196.	19.2	184.	12.									17. MAY BE LOW DUE TO CHANGE IN MWD RELEASE
2-3	128.	11.4	127.	1.									
2-7	139.	18.	120.	19.									
2-10	115.	26.	110.	5.									
2-14	170.	19.	161.	9.									
2-17	160.	22.	148.	12.	11. 88.8	50.6	75.6	13.2	28.1	47.5	11.0	17.1	END OF FLOW 400' BELOW FREEWAY
2-24	143.	17.	125.	18.	69.9	55.1	54.4	15.5	16.1	38.3	0	16.1	
3-2	130.	4.6	112.	18.									
3-8	163.	23.	147.	16.									
3-21	129.	5.	83.	46.									
3-24	173.	10.											
3-31	248.	35.	220.	28.									
4-4	190.	9.	5. 160.	30.									
4-12	110.	21.	95.	15.	49.	46.			END OF FLOW AT TELEGRAPH ROAD				
4-24	164.	19.	151.	13.	13. 76.	40.							
4-28	141.	7.	126.	15.	74.	52.							
5-8	131.	27.	122.	9.	60.	62.							
5-26	140.	16.											
5-31	150.	32.											
6-5	156.	24.	156.	0	14. 59.	67.							
6-7	230.	23.	220.	10.	15. 91.	64.							
6-12	202.	+ 3.	166.	36.									
9-11	83.	45.	25.	58.					END OF FLOW AT DUNLAP CROSSING				
9-14	139.	53.	109.	30.									
9-18	17. 254.	39.	17. 219.	35.									
9-22	180.	53.	186.	+6.	88.3	97.7	83.5	4.8	23.9	59.6			END OF FLOW ONE BASIN ABOVE FREEWAY
9-25			173.	62.	95.1	77.9	85.6	9.5					
9-29	104.	18.8	81.	23.	16.5	64.5			END OF FLOW 500' BELOW WASHINGTON				

PERCOLATION LOSSES ON NORTH FORK COYOTE CREEK

BASED ON METER MEASUREMENTS

1960-61

DATE	NORTH FORK COYOTE CREEK ABOVE TELEGRAPH ROAD	FLOW AT MEYER ROAD	LOSS CFS	FLOW 150' ABOVE IMPERIAL HIGHWAY	LOSS CFS	FLOW AT IMPERIAL HIGHWAY	LOSS CFS	FLOW 100' BELOW IMPERIAL HIGHWAY	LOSS CFS	FLOW 150' BELOW IMPERIAL HIGHWAY	LOSS CFS	FLOW 200' BELOW IMPERIAL HIGHWAY	LOSS CFS
2-2		0.15				0.10	0.05						
2-6		0.13				0.07	0.06						
2-16		0.22										0.15	0.07
2-28		4.6		3. 4.7	+0.1								
3-1		0.21				0.14	0.07						
3-3		6.3				5.4	0.90						
3-6		0.20				0.16	0.04						
3-6				4.4									
3-15		80.9				77.0	3.9						
3-15				10.6									
3-15				3.9									
3-16						0.74							
3-22				1.2									
4-6												1.5	
4-12						4.1							
5-11												5.6	
5-16												+	
5-18										3.1			
5-25								0.76					
6-1										1.27			
6-2								3.9					
6-8								1.7					
6-14								2.4					
6-22								1.0					
6-28	0.16							0.23	+0.07				
7-5	0.15							0.23	+0.08				
7-12	0.39									0.58	+0.19		
7-13	2.0									2.4	+0.4		
7-19	2.3									2.7	+0.4		
7-19	2.3									2.3	0		
7-26	2.6									2.8	+0.2		
7-26	2.6									2.4	0.2		
8-2	2.9									3.2	+0.3		
8-9	0.13									0.25	+0.12		
8-16	5.4									5.5	+0.1		
8-16	4.9									4.8	0.1		
8-23	5.7									6.6	+0.9		
8-30	0.15									0.20	+0.05		
9-7						1.3							
9-12	4.7					4.3	0.4						
9-14	0.27					0.27	0						
9-19	5.6					7.4	+1.8						
9-21				1.7									
9-27	2.1									2.8	+0.7		

1960-61 PERCOLATION LOSSES ON NORTH FORK COYOTE CREEK (Continued)

DATE	FLOW 500' BELOW IMPERIAL HIGHWAY	LOSS CFS	FLOW 730' BELOW IMPERIAL HIGHWAY	LOSS CFS	FLOW 1000' BELOW IMPERIAL HIGHWAY	LOSS CFS	FLOW 1500' BELOW IMPERIAL HIGHWAY	LOSS CFS	FLOW 2200' BELOW IMPERIAL HIGHWAY	LOSS CFS	FLOW AT WILSHIRE OIL CO. BRIDGE	LOSS CFS	FLOW AT LOWER END OF DUMP	LOSS CFS
2-2	1. 0.01	0.09	2. 0	0.01										
2-6	0.01	0.06		END OF FLOW AT STATION 186 + 00									0	0.15
2-16							4.0	0	3.5	0.50				
2-28	4.0	0.7					4.		END OF FLOW 1550' BELOW IMPERIAL					
3-1			0.09	0.05			3.7	0.9	3.6	0.1				
3-3			5.5	+0.1	4.6	0.9	5.		END OF FLOW 1530' BELOW IMPERIAL					
3-6	0.13	0.03			0.10	0.03	3.6	0.7	3.5	0.1				
3-6	4.3	0.1					64.	3.6			53.9	10.1		
3-15	67.6	9.4					8.0	0.9			8.6	+0.6		
3-15	8.9	1.7					3.0	1.2			3.6	+0.6		
3-15	4.2	+0.3					0.23	0.34			0.16	0.07		
3-16	0.57	0.17					0.74	0.36			0.50	0.24		
3-22	1.1	0.1									0.99	0.51		
4-6													4.1	0
4-12											4.1	1.5		
5-11													0	+
5-16													3.0	0.1
5-18														

1960-61 PERCOLATION LOSSES ON NORTH FORK COYOTE CREEK (Continued)

DATE	FLOW 50' BELOW DUMP	LOSS CFS	FLOW 150' BELOW DUMP	LOSS CFS	FLOW 300' BELOW DUMP	LOSS CFS	REMARKS
5-25	0.70	0.06					1. ESTIMATE
6-1	0.98	0.29					2. END OF FLOW
6-2	4.6	+0.7					3. 0.03 CFS INFLOW FROM DRAIN
6-8	1.2	0.5					4. MEASURED 0.03 CFS 1450' BELOW IMPERIAL HIGHWAY
6-14	1.9	0.5					5. MEASURED 0.04 CFS 1430' BELOW IMPERIAL HIGHWAY
6-22	0.06	0.94					+ INDICATES LESS THAN 0.05 CFS
6-28	0.24	+0.01					
7-5	0.08	0.15					
7-12	0.50	0.08			2.0	0.4	
7-13							
7-19	2.1	0.6					
7-19	1.8	0.5					
7-26	2.2	0.6					
7-26	2.0	0.4					
8-2	2.9	0.3					
8-9	0.14	0.11					
8-16	4.6	0.9					
8-16	4.0	0.8					
8-23	5.1	1.5					
8-30	0.06	0.14					
9-7	1.2	0.1					
9-12			4.0	0.3			
9-14	0.31	+0.04					
9-19			5.5	1.9			
9-21			1.4	0.3			
9-27					2.0	0.8	

PERCOLATION LOSSES ON BIG DALTON WASH

BASED ON METER MEASUREMENTS

1960-61

DATE	BIG DALTON WASH AT BEN LOMOND AVENUE	FLOW AT CITRUS AVENUE	LOSS CFS	REMARKS
2-16	5.3	4.7	0.6	
2-20	5.0	5.0	0	

PERCOLATION LOSSES ON PUDDINGSTONE CREEK

BASED ON METER MEASUREMENTS

1959-60

DATE	PUDDINGSTONE CREEK 1000' BELOW PUDDINGSTONE DAM F40-R	FLOW 1252' BELOW PUDDINGSTONE DAM	GAIN CFS	FLOW 1560' BELOW PUDDINGSTONE DAM	LOSS CFS	FLOW 1800' BELOW PUDDINGSTONE DAM	LOSS CFS	FLOW 2075' BELOW PUDDINGSTONE DAM	GAIN CFS	FLOW 2400' BELOW PUDDINGSTONE DAM	LOSS CFS	FLOW AT JUNCTION WITH WALNUT CREEK	GAIN CFS	REMARKS
4-26	0.04	0.09	0.05	0.06	0.03	0.06	0	0.11	0.05	0.07	0.04	0.10	0.03	

PERCOLATION LOSSES ON WALNUT WASH

BASED ON METER MEASUREMENTS

1960-61

DATE	PUDDINGSTONE CREEK BELOW PUDDINGSTONE DAM	WALNUT WASH AT OAK CANYON ROAD	LOSS CFS	FLOW AT CALIFORNIA STREET	LOSS CFS	FLOW AT PUENTE AVENUE	LOSS CFS	FLOW AT RIVERGRADE ROAD	LOSS CFS	REMARKS
11-11	53.1	39.5	13.6	22.2	17.3					SEE PERCOLATION
11-13	52.7	49.7	3.0							LOSSES ON
11-14	108.	97.4	10.6			87.6	9.8	75.9	11.7	SAN GABRIEL RIVER
11-15	160.					133.	27.			
11-16	253.	223.	30.							
11-17	288.					274.	14.	254.	20.	
12-3	101.					82.6	18.4			
12-7	257.					228.	29.			

SUMMARY OF SEASONAL DISCHARGE

Water Years 1959-60, 1960-61

YEAR	F.C. NUMBER	STATION	LOCATION	MAXIMUM DAILY C.F.S.	MINIMUM DAILY C.F.S.	MEAN C.F.S.	RUNOFF A.F.	MONTH	PEAK FLOW DAY	PEAK FLOW C.F.S.
1959/60	F81D-R	ALHAMBRA WASH	NEAR KLINGERMAN STREET	200.	0.1	3.75	2720.	1	11	1710.
1960/61	"	" "	" " "	153.	0.3	2.48	1790.	11	5	1480.
1959/60	F152-R	ALISO WASH	BELOW NORDHOFF STREET	35.	0	0.22	162.	2	1	281.
1960/61	"	" "	" " "	21.	0	0.18	129.	11	5	305.
1959/60	F317-R	ARCADIA WASH	BELOW GRAND AVENUE	101.	0.3	1.69	1220.	4	27	593.
1960/61	"	" "	" " "	69.	+	1.15	831.	11	5	570.
1959/60	P277-R	ARROYO SECO	BELOW DEVIL'S GATE DAM	1.6	0	0.36	262.	1	11	6.9
1960/61	"	" "	" " " "	70.	+	0.60	435.	11	25	360.
1959/60	F298-R	BALLONA CREEK	AT CURSON AVENUE	288.	1.4	8.77	6360.	1	11	2820.
1960/61	"	" "	" " "	314.	0.5	8.02	5810.	11	5	3860.
1959/60	F388-R	BALLONA CREEK	AT SAWTELLE BOULEVARD	1290.	2.2	23.7	17190.	1	11	12490.
1960/61	"	" "	" " "	945.	4.2	17.3	12560.	11	5	7700.
1959/60	F120-R	BIG DALTON CREEK	BELOW BIG DALTON DAM	1.7	0	+	10.	7	21	5.0
1960/61	"	" " "	" " " "	14.3	0	0.23	167.	11	14	37.
1959/60	F202-R	BIG DALTON WASH	AT SIERRA MADRE AVENUE	0	0	0	0	-	-	0
1960/61	"	" " "	" " " "	1.6	0	0.03	21.	11	12	38.
1959/60	F274B-R	DALTON WASH	AT MERCED AVENUE	130.	0.1	3.11	2260.	4	27	966.
1960/61	"	" "	" " "	150.	0.2	3.07	2220.	1	26	1470.
1959/60	F111C-R	BIG TUJUNGA CREEK	BELOW MILL CREEK	7.4	0	0.94	683.	1	10	13.
1960/61	"	" " "	" " "	23.	0	0.64	461.	11	6	82.
1959/60	F168-R	BIG TUJUNGA CREEK	BELOW BIG TUJUNGA DAM	6.5	+	2.22	1620.	6	2	6.5
1960/61	"	" " "	" " " "	4.6	0	0.96	695.	11	5	11.
1959/60	F213-R	BIG TUJUNGA CREEK	ABOVE GOLD CANYON	12.	0.1	2.68	1950.	1	12	22.
1960/61	"	" " "	" " "	16.	0.2	1.28	926.	11	5	86.
1959-60	F105B-R	TUJUNGA WASH	BELOW MOORPARK STREET	150.	0	3.02	2190.	1	11	1430.
1960/61	"	" "	" " "	174.	+	2.39	1730.	11	5	1380.
1959/60	F329-R	BRADBURY CHANNEL	BELOW CENTRAL AVENUE	5.2	0	0.08	59.	12	24	40.
1960/61	"	" " "	" " "	4.5	0	0.04	30.	11	3	60.
1959/60	F108-R	CASTAIC CREEK	AT HIGHWAY 126	0	0	0	0	-	-	0
1960/61	"	" "	" " "	0.4	0	+	0.8	11	6	3.1
1959/60	F302-R	COMPTON CREEK	AT 120TH STREET	279.	0	3.38	2450.	1	11	1950.
1960/61	"	" "	" " "	116.	0	1.44	1040.	11	5	1140.
1959/60	F378-R	COMPTON CREEK	NEAR GREENLEAF DRIVE	463.	0	6.33	4590.	1	11	3220.
1960/61	"	" "	" " "	204.	+	2.71	1960.	11	5	1640.
1959/60	F320-R	COYOTE CREEK	AT CENTRALIA ROAD	420.	0.4	7.62	5560.	2	1	2390.
1960/61	"	" "	" " "	300.	0.4	4.39	3180.	1	26	1380.
1959/60	F265-R	DOMINGUEZ CHANNEL	AT CARSON STREET	436.	7.2	21.7	15790.	2	2	494.
1960/61	"	" "	" " "	164.	5.8	12.5	9050.	11	6	256.
1959/60	F53-R	DUME CREEK	AT PACIFIC COAST HIGHWAY	0.6	0	+	1.2	2	1	11.
1960/61	"	" "	" " "	0	0	0	0	-	-	0
1959/60	F271-R	EATON WASH	BELOW EATON WASH DAM	+	0	+	+	-	-	+
1960/61	"	" "	" " "	+	0	+	+	-	-	+
1959/60	F318-R	EATON WASH	AT LOFTUS DRIVE	186.	+	3.33	2420.	8	12	1090.
1960/61	"	" "	" " "	123.	0.1	2.20	1590.	11	26	1200.
1959/60	F296-R	EVEY CANYON CREEK	AT CAMP BALOY ROAD	0.5	0	0.10	70.	4	27	1.0
1960/61	"	" " "	" " " "	0.8	0	0.04	29.	1	26	0.5
1959/60	F287C-R	LA TUNA CREEK	BELOW DEBRIS BASIN	0.2	0	+	0.6	2	29	2.1
1960/61	"	" " "	" " "	+	0	+	+	ND	ND	ND
1959/60	F658-R	LITTLE DALTON CREEK	ABOVE MOUTH OF CANYON	0.6	0	+	8.0	2	8	2.2
1960/61	"	" " "	" " " "	24	0	0.13	96.4	1	26	314.
1959/60	L1-R	LITTLE ROCK CREEK	ABOVE LITTLE ROCK DAM	15.	0	2.41	1750.	1	26	17.
1960/61	"	" " "	" " " "	25.	0	1.78	1290.	11	6	37.
1959/60	F19-R	LITTLE TUJUNGA WASH	AT FOOTHILL BOULEVARD	0.6	+	+	1.4	2	1	6.0
1960/61	"	" " "	" " "	11.	0	0.07	52.4	11	5	266.
1959/60	F31-R	LIVE OAK CREEK	NEAR MOUTH OF CANYON	0	0	0	0	-	-	0
1960/61	"	" " "	" " " "	0	0	0	0	-	-	0
1959/60	F311-R	LIVE OAK WASH	BELOW 7TH STREET, LA VERNE	80.3	0	0.64	463.5	-	-	-
1960/61	"	" " "	" " " "	198.0	0	14.6	10600.	-	-	-
1959/60	F300-R	LOS ANGELES RIVER	AT TUJUNGA AVENUE	1040.	4.0	28.	20650.	1	12	6900.
1960/61	"	" " "	" " "	1010.	3.2	18.3	13260.	11	5	6600.
1959/60	F266-R	LOS ANGELES RIVER	AT MARIPOSA STREET	1220.	0	20.3	14720.	1	12	6930.
1960/61	"	" " "	" " "	1390.	0	15.7	11380.	11	5	7400.
1959/60	F57C-R	LOS ANGELES RIVER	ABOVE ARROYO SECO	1420.	+	23.3	16910.	1	12	8960.
1960/61	"	" " "	" " "	1690.	+	16.6	12000.	11	5	7890.
1959/60	F340-R	LOS ANGELES RIVER	AT FIRESTONE BOULEVARD	2090.	4.0	43.6	31610.	1	12	10700.
1960/61	"	" " "	" " "	2230.	4.5	32.6	23600.	11	5	7810.
1959/60	F319-R	LOS ANGELES RIVER	BELOW BELHART STREET	3420.	3.7	67.6	49100	1	12	21700.
1960/61	"	" " "	" " "	2860.	1.3	44.2	31980.	1	26	9450.
1959/60	F279C-R	LOS CERRITOS CHANNEL	AT STEARNS STREET	359.	+	5.21	3780.	2	1	3120.
1960/61	"	" " "	" " "	229.	0	2.53	1830.	1	26	1020.
1959/60	F130-R	MALIBU CREEK	AT CRATER CAMP	17.	0.03	0.69	504.	4	27	84.
1960/61	"	" "	" " "	2.0	0.01	0.14	99.	1	26	8.0
1959/60	F328-R	MINT CANYON CREEK	AT FITCH AVENUE	0.3	0	0.003	2.0	1	10	8.1
1960/61	"	" " "	" " "	3.6	0	0.02	14.5	11	5	64.
1959/60	F330-R	MISSION CREEK	BELOW LEGG LAKE	3.0	+	1.22	888.	7	19	13.3
1960/61	"	" "	" " "	1.0	+	0.36	260.	SEVERAL DAYS		1.0
1959/60	F83-R	MISSION CREEK	AT SAN GABRIEL BOULEVARD	5.3	0.3	2.97	2160.	2	1	6.8
1960/61	"	" "	" " " "	2.0	0	0.83	60.6	2	9	2.0
1959/60	F22-R	MONROVIA CREEK	ABOVE SAWPIT CREEK	1.0	0.01	0.07	53.	2	29	4.9
1960/61	"	" "	" " "	1.2	0.01	0.05	35.	11	12	8.8
1959/60	F195B-R	MONROVIA STORM DRAIN	ABOVE PECK ROAD	42.	+	0.53	384.	4	27	402.
1960/61	"	" " "	" " "	9.2	0	0.36	259.	11	6	651.
1959/60	F181-R	MONTEBELLO STORM DRAIN	ABOVE RIO HONDO	63.	0.1	2.11	1530.	1	12	784.
1960/61	"	" " "	" " "	65.	0.2	1.22	884.	11	26	478.
1959/60	F118B-R	PACOIMA CREEK FLUME	BELOW PACOIMA DAM	3.7	0	0.37	269.	8	2	4.2
1960/61	"	" " "	" " "	0.1	+	.01	6.1	10	-	0.1
1959/60	F305-R	PACOIMA DIVERSION	AT BRANFORD STREET	46.	0	0.95	690.	1	11	666.
1960/61	"	" "	" " "	86.	0	1.26	910.	11	5	988.
1959/60	F15-R	PACOIMA WASH	AT VAN NUYS BOULEVARD	4.2	0	0.04	27.	1	11	33.
1960/61	"	" "	" " "	27.	0	0.09	66.9	11	5	319.
1959/60	F135-R	PLACERITA CREEK	AT SAUGUS-VENTURA ROAD	13.	0	0.15	109.	1	11	120.
1960/61	"	" "	" " " "	21.	0	0.18	132.	11	5	196.
1959/60	F307-4	PUDDINGSTONE DIVERSION CHANNEL	AT JUANITA STREET	0	0	0	0	-	-	0
1960/61	"	SAN DIMAS WATER CO. OUTLET	" " "	0	0	0	0	-	-	0
1959/60	F40-R	PUDDINGSTONE CREEK	BELOW PUDDINGSTONE DAM	0.5	0.02	0.06	42.	1	12	3.4
1960/61	"	" "	" " "	291.	0.02	13.1	9450.	11	16	294.
1959/60	F192B-R	RIO HONDO	AT LOWER AZUSA ROAD	30.	0	0.42	303.	1	12	185.
1960/61	"	" "	" " " "	16.1	0	0.18	131.	11	5	132.
1959/60	F64-R	RIO HONDO	ABOVE MISSION BRIDGE	664.	5.4	69.0	50100.	1	12	3900.
1960/61	"	" "	" " "	638.	0.8	104.	75350.	1	26	3030.

SUMMARY OF SEASONAL DISCHARGE

Water Years 1959-60 1960-61

YEAR	F.C. NUMBER	STATION	LOCATION	MAXIMUM DAILY C.F.S.	MINIMUM DAILY C.F.S.	MEAN C.F.S.	RUNOFF A.F.	MONTH	PEAK FLOW DAY	PEAK FLOW C.F.S.
1959/60	F313-R	RIO HONDO BY-PASS CHANNEL	ABOVE WHITTIER NARROWS DAM	0	0	0	0	--	--	0
1960/61	"	" " " "	" " " "	0	0	0	0	-	--	0
1959/60	F458-R	RIO HONDO	ABOVE STEWART AND GREY ROAD	219.	0	3.27	2370.	1	12	3030.
1960/61	"	" "	" " " "	115.	0	1.15	831.	11	26	2090.
1959/60	F338-R	RUBIO DIVERSION CHANNEL	BELOW GOOSEBERRY CANYON INLET	0.8	0	0.01	8.8	1	11	8.6
1960/61	"	" " "	" " " "	0.8	0	0.01	6.0	1	26	5.4
1959/60	F82C-R	RUBIO WASH	AT GLENDON WAY	135.	0.2	2.51	1820.	1	11	985.
1960/61	"	" "	" " "	117.	0.2	1.76	1270.	11	6	902.
1959/60	F323-R	SAN ANTONIO CREEK	ABOVE STODDARD CANYON	3.6	0	0.01	9.1	4	27	9.1
1960/61	"	" " "	" " "	+	0	+	+	-	-	+
1959/60	F332-R	SAN ANTONIO WATER COMPANY DIVERSION	NEAR ONTARIO NO. 1 POWER HOUSE	0.9	0	+	2.8	4	28	2.3
1960/61	"	" " " " " "	" " " " " "	0	0	0	0	-	--	0
1959/60	F303-R	SAN DIMAS CREEK	BELOW SAN DIMAS DAM	5.9	0	0.67	484.	SEVERAL DAYS		5.9
1960/61	"	" " "	" " "	17.1	0.01	0.40	291.	8	1	20.
1959/60	F218-R	SAN DIMAS WASH	BELOW PUDDINGSTONE DIVERSION DAM	0	0	0	0	-	--	0
1960/61	"	" " "	" " " "	14.4	0	0.10	72.	7	21	15.
1959/60	F209-R	SAN GABRIEL RIVER - WEST FORK	BELOW COGSWELL DAM	13.	0.1	2.78	2020.	1	29	260.
1960/61	"	" " " " " "	" " "	5.6	0.1	0.80	577.	1	11	336.
1959/60	P3-R	SAN GABRIEL RIVER - WEST FORK	ABOVE FORKS	48.	2.7	11.5	8350.	1	10	128.
1960/61	"	" " " " " "	" "	79.	1.2	7.12	5160.	11	5	447.
1959/60	P48-R	SAN GABRIEL RIVER - EAST FORK	ABOVE FORKS	62.	4.4	15.7	11400.	4	28	94.
1960/61	"	" " " " "	" "	57.	1.7	9.74	7060.	11	12	112.
1959/60	F250-R	SAN GABRIEL - AZUSA CONDUIT	AT WEIR BELOW SAN GABRIEL DAM	50.	5.1	24.6	17840.	SEVERAL DAYS		50.
1960/61	"	" " " " "	" " " " " "	45.	0	12.2	8830.	11	17	45.
1959/60	F220-R	SAN GABRIEL - AZUSA CONDUIT	AT GARCIA CANYON	50.	5.3	24.6	17850.	2	2	51.
1960/61	"	" " " "	" " "	45.	0	12.2	8820.	SEVERAL DAYS		45.
1959/60	S100A-R	SAN GABRIEL - AZUSA -	AT MOUTH OF CANYON	0	0	0	0	-	-	0
1960/61	"	DUARTE TUNNEL DIVERSION	" " " "	14.	0	4.89	3540.	-	-	-
1959/60	F190-R	SAN GABRIEL RIVER	AT FOOTHILL BOULEVARD	12.8	0	0.69	499.	4	27	90.
1960/61	"	" " "	" " "	26.	0	0.20	147.	1	26	48.
1959/60	F261C-R	SAN GABRIEL RIVER	BELOW VALLEY BOULEVARD	--	--	--	--	--	--	--
1960/61	"	" " "	" " "	ND	ND	ND	ND	1	26	1200.
1959/60	F314-R	SAN GABRIEL BY-PASS CHANNEL	ABOVE WHITTIER NARROWS DAM	0	0	0	0	-	-	0
1960/61	"	" " " " "	" " " "	0	0	0	0	-	-	0
1959/60	F263B-R	SAN GABRIEL RIVER	AT BEVERLY BOULEVARD	449.	0	49.7	36100.	1	12	2390.
1960/61	"	" " "	" " "	421.	0	65.9	47700.	1	26	1330.
1959/60	F262-R	SAN GABRIEL RIVER	AT FLORENCE AVENUE	377.	0	2.74	1990.	1	12	2210.
1960/61	"	" " "	" " "	316.	0	0.94	678.	1	26	2940.
1959/60	F42-R	SAN GABRIEL RIVER	AT SPRING STREET, LONG BEACH	355.	0	2.57	1860.	1	12	2180.
1960/61	"	" " "	" " " "	204.	0	0.62	448.	1	26	1780.
1959/60	F312-R	SAN JOSE CHANNEL	ABOVE WORKMAN MILL ROAD	253.	0	4.72	3430.	4	27	1380.
1960/61	"	" " "	" " " "	103.	0	0.56	403.	1	26	429.
1959/60	F48-R	SAN JOSE CREEK	AT WORKMAN MILL ROAD	9.2	0.4	1.79	1300.	1	11	18.
1960/61	"	" " "	" " "	28.	0.2	2.82	2040.	11	6	133.
1959/60	F119B-R	SANTA ANITA CREEK	BELOW SANTA ANITA DAM	25.	0.05	1.57	1140.	8	1	114.
1960/61	"	" " "	" " " "	19	0	0.56	405.	1	28	19.
1959/60	F260C-R	SANTA ANITA WASH	BELOW FOOTHILL BOULEVARD	10.2	0	0.22	161.	1	11	194.
1960/61	"	" " "	" " "	9.5	0	0.14	98.	11	5	257.
1959/60	F193B-4	SANTA ANITA WASH	AT LONGOEN AVENUE	55.	0	0.64	465.	4	27	534.
1960/61	"	" " "	" " "	33.	0	0.30	216.	11	12	314.
1959/60	F93-R	SANTA CLARA RIVER	ABOVE LANG RAILROAD STATION	1.3	0.9	1.11	807.	SEVERAL DAYS		1.3
1960/61	"	" " "	" " " "	46.	0.3	1.35	980.	11	6	500.
1959/60	F92-R	SANTA CLARA RIVER	AT OLD HIGHWAY BRIDGE	12.	0	0.40	288.	4	27	151.
1960/61	"	" " "	" " " "	58.	0	0.74	533.	11	5	830.
1959/60	F280-R	SANTA FE CHANNEL	BELOW SANTA FE DAM	0	0	0	0	-	--	0
1960/61	"	" " "	" " " "	0	0	0	0	-	--	0
1959/60	F125-R	SANTIAGO CREEK	ABOVE LITTLE ROCK CREEK	1.3	0	0.10	75.	2	2	1.6
1960/61	"	" "	" " " "	+	0	+	+	8	5	0.5
1959/60	F278-R	SAWPIT CREEK	BELOW SAWPIT DAM	4.3	0	0.21	151.	4	27	34.
1960/61	"	" "	" " "	1.7	0	0.20	144.	1	26	5.9
1959/60	F194B-R	SAWPIT WASH	BELOW ARROW HIGHWAY	--	--	--	--	--	--	--
1960/61	"	" "	" " "	ND	ND	ND	263. INC.	1	26	420.
1959/60	F301-R	SAWTELLE-WESTWOOD CHANNEL	ABOVE CULVER BOULEVARD	297.	0.3	5.6	4070.	4	27	3310.
1960/61	"	" "	" " "	204.	0.6	3.9	2820.	11	5	2950.
1959/60	F67B-R	SIERRA MADRE WASH	BELOW SIERRA MADRE DAM	1.0	0	0.02	14.	1	12	3.1
1960/61	"	" " "	" " " "	1.5	0	0.01	7.8	11	5	16.
1959/60	F267B-R	SIERRA MADRE WASH	AT HIGHLAND OAKS DRIVE	5.8	0	0.01	72.	1	15	56.
1960/61	"	" " "	" " " "	4.5	0	0.06	40.	11	5	127.
1959/60	B324-R	STODDARD CREEK	ABOVE SAN ANTONIO CREEK	1.2	0	0.01	66.	4	28	15.
1960/61	"	" "	" " " "	1.0	0	0.04	28.	11	12	3.4
1959/60	F43-R	SYCAMORE CANYON CHANNEL	ABOVE SOLWAY STREET	6.4	0	0.07	52.9	1	11	30.
1960/61	"	" " "	" " "	6.1	0	0.06	43.	11	6	177.
1959/60	F44B-R	SYCAMORE CANYON CHANNEL	AT ADAMS SQUARE	12.4	+	0.28	204.	1	14	147.
1960/61	"	" " "	" " "	16.5	0	0.25	182.	11	5	413.
1959/60	F276-R	THOMPSON CREEK	AT THOMPSON CREEK DAM	0	0	0	0	-	--	0
1960/61	"	SPREADING GROUNDS INTAKE	" " " "	0	0	0	0	-	--	0
1959/60	F32B-R	THOMPSON CREEK	BELOW THOMPSON CREEK DAM	0	0	0	0	-	--	0
1960/61	"	" " "	" " " "	0	0	0	0	-	--	0
1959/60	F54B-R	TOPANGA CREEK	ABOVE MOUTH OF CANYON	76.	0.01	0.58	422.	4	27	539.
1960/61	"	" " "	" " " "	8.1	+	0.08	58.4	1	26	28.
1959/60	F252-R	VERDUGO CHANNEL	AT ESTELLE AVENUE	56.	0	1.19	862.	1	11	533.
1960/61	"	" "	" " "	98.	+	0.92	667.	11	5	676.
1959/60	F304-R	WALNUT CREEK	AT PUENTE AVENUE	163.	0	1.80	1300.	1	12	1160.
1960/61	"	"	" " "	272.	0	12.4	9010.	1	26	411.

TABLE XII

RUNOFF WASTE TO OCEAN IN ACRE-FEET

YEAR	SAWTELLE-WESTWOOD CHANNEL AT CULVER BOULEVARD	BALLONA CREEK AT SAWTELLE BOULEVARD [a] AT CENTINELA BOULEVARD	DOMINGUEZ CHANNEL AT CARSON BOULEVARD	LOS ANGELES RIVER AT BELHART STREET [c] AT PACIFIC COAST HIGHWAY [b] AT WILLOW STREET	LOS CERRITOS CHANNEL AT STEARNS STREET [d] AT SEVENTH STREET [e] AT ATHERTON STREET	SAN GABRIEL RIVER AT SPRING STREET	COYOTE CREEK [g] AT CENTRALIA ROAD [f] AT DEL AMO STREET BELOW P.E.R.R. BRIDGE - ARTESIA	TOTAL MEASURED WASTE TO OCEAN	RAINFALL INDEX MEAN FOR COUNTY
1927-28		[a] 3930.				NO FLOW			66
1928-29		[a] 14900.		[b] 9340. INC.		" "		24240.	70
1929-30		[a] 13480.		[b] 12310.		" "	[f] 699.	26490.	79
1930-31		[a] 18520.		[b] 14400.		" "	[f] 568.	33490.	94
1931-32		[a] 21790.		[c] 50960.		6560.	[f] 2690.	82000.	125
1932-33		[a] 15810.		[c] 22890.		809.	[f] 457.	39970.	74
1933-34		[a] 20630.		[c] 67860.		12370.	[f] 3890.	104750.	70
1934-35		[a] 24870.		[c] 40470.		2380.	[f] 3850.	71570.	134
1935-36		[a] 13486.		[c] 20470.		1190.	[f] 1150.	36300.	69
1936-37		40680.		[c] 91100.		13510.	[g] 13680.	158970.	144
1937-38		52500.		[c] 408000.		88020.	[g] 15070.	563590.	150
1938-39		28490.		[c] 82750.		1080.	[g] 4250.	116570.	121
1939-40		21110.		[c] 65930.		1460.	[g] 3190.	91690.	82
1940-41		67360.	32260.	[c] 369500.		65890.	[g] 29500.	564510.	219
1941-42		17250.	3570.	[c] 93390.		10830.	[g] 1560.	126600.	81
1942-43		34240.	12200.	[c] 264900.		175100.	[g] 12070.	498510.	150
1943-44		33000.	19020.	[c] 217400.		72200.	[g] 12060.	353680.	161
1944-45		24450.	9010.	[c] 100200.		22280.	[g] 3800.	159740.	92
1945-46		18380.	8890.	[c] 91790.		12590.	[g] 3540.	135190.	90
1946-47		26300.	10650.	[c] 106000.		24100.	[g] 2460.	69510.	94
1947-48		13630.	5200.	[c] 52820.		NO FLOW	[g] 1500.	73150.	53
1948-49		16090.	5660.	[c] 44350.		" "	[g] 951.	67050.	59
1949-50		23250.	6590.	[c] 42180.	[e] 1900.	" "	[g] 1800.	75720.	66
1950-51	INC.	18860.	9180.	[c] 36600.	[e] 2190.	" "	[g] 1420.	68250.	43
1951-52	10180.	53350.	25700.	[c] 212200.	[e] 9730.	21100. EST.	[g] 23920.	356180.	172
1952-53	2790.	19910.	9630.	[c] 44490.	[e] 2810.	220.	[g] 1160.	81010.	62
1953-54	6960.	28480.	13800.	[c] 70790.	[e] 5850.	2060.	[g] 3990.	131930.	87
1954-55	3130.	21600.	11850.	[c] 60120.	[e] 4500.	820.	[g] 1220.	103240.	78
1955-56	6450.	34590.	22370.	46030.	6500.	9390.	7280.	182610.	82
1956-57	5200.	22240.	11440.	48710.	2920.	896.	1200.	92610.	73
1957-58	8410.	43040.	30080.	191200.	9730.	22930.	15660.	321050.	167
1958-59	3440.	13730.	13270.	49390.	2410.	2670.	3080.	87990.	51
1959-60	4070.	17190.	15790.	49100.	3780.	1860.	4420.	96210.	56
1960-61	2820.	12560.	9050.	32000.	1830.	448.	1720.	60430.	41

Prior to 1/22/51, discharge of Sawtelle-Westwood Channel was included in Ballona Creek at Sawtelle Boulevard.

No discharge record prior to 10/1/40.

During period 1942 to 1949 when Station was at Seventh Street, records of discharge were not determined due to tidal fluctuations. [d]

a. At Centinela Boulevard February 1928 to April 27, 1936. At Sawtelle Boulevard after May 1, 1936.

b. At Willow Street prior to 1931.

c. At Pacific Coast Highway from 1931 to January 1956. Below Belhart Street after January 1956.

d. At Seventh Street November 1942 to June 1949.

e. At Atherton Street June 1949 to May 1955. At Stearns Street after October 1955.

f. Below P.E.R.R. Bridge from January 1930 to October 1936.

g. At Del Amo Street October 1936 to February 1956. At Centralia Road after February 1956.

DAM OPERATION RECORDS

DAMS AND RESERVOIRS

FOREWORD

The District operated and maintained fourteen dams during the 1959-60 and 1960-61 water years. The Los Angeles District Corps of Engineers, Department of the Army, operated and maintained Hansen Dam on the Tujunga Wash, Sepulveda Dam on the Los Angeles River, Whittier Narrows Dam and Santa Fe Dam on the San Gabriel River and the Rio Hondo, and San Antonio Dam.

Pertinent data relative to the District's flood control and water conservation dams are presented in the following tabulation:

FLOOD CONTROL AND CONSERVATION DAMS

Dam	Date of Completion	Date of Survey for Original Storage	Original Storage at Spwy. A.F.	Date of Latest Survey	Latest Storage at Spwy. A.F.	Drainage Area Sq. Miles
1. Pacoima	Feb. 1929	1919	6060	June 1958	4651	28.2
2. Big Tujunga	July 1931	1928	6240	June 1958	4123	82.3
3. Devil's Gate	June 1920	1929	4567	Oct. 1959	2839	31.9
4. Eaton Wash	Feb. 1937	Jan. 1936	956	Dec. 1959	817	9.5
5. Big Santa Anita	May 1927	1923	1376	Sept. 1958	587	10.8
6. Sawpit	June 1927	1923	476	Sept. 1959	289	3.3
7. Cogswell	April 1934	Jan. 1936	12298	Oct. 1958	10446	39.2
8. San Gabriel	July 1939	1938 [4]	53344	Aug. 1958	44614	163.5 [1]
9. Big Dalton	Aug. 1929	1935 [5]	1053	Sept. 1961	901	4.5
10. San Dimas	Sept. 1922	1919	1496	Aug. 1961	901	16.2
11. Puddingstone Diversion [2]	July 1928	1929	148	Sept. 1953	138	2.6
12. Puddingstone	Jan. 1928	1915	17398	Jan. 1941	17190	11.0 [3]
13. Live Oak	Nov. 1922	1919	250	Nov. 1952	221	2.3
14. Thompson Creek	Mar. 1928	Oct. 1932	812 [6]	Dec. 1959	578	3.5

[1] Exclusive of drainage area above Cogswell Dam.
[2] Temporary storage - functions primarily to divert flow.
[3] Exclusive of drainage area above Live Oak, San Dimas and Puddingstone Diversion Dams.
[4] Based on a partial survey prior to March 2, 1938 and extrapolations.
[5] 1935 is a date of first complete survey; original reconnaissance survey was made in 1923. Earlier publications show storage based on volumetric computations with extrapolations based on the 1923 survey (1194 A.F.).
[6] Spillway lip lowered in 1942 from elevation 1640. to elevation 1634.85, original storage based on elevation 1634.85 would have been 645 A.F.

PURPOSE

Dams of the Los Angeles County Flood Control District serve two purposes, flood control, and water conservation.

OPERATION

The District Reservoirs are operated in such a manner as to achieve the maximum flood protection during the storm season. Releases of water are made so as to conserve as much as possible in spreading grounds and by natural channel infiltration. Late in the rainy period, water is stored to provide for the dry summer months.

Reclaiming of valuable storage capacity is effected by sluicing from the District reservoirs to the limit of available and safe channel capacity below the dams when runoff and storage conditions permit and by excavating by permittees where feasible.

The following tabulation shows the amount of debris removed from reservoirs by excavation during the 1959-60 and 1960-61 seasons:

Dam	1959-60 Acre-feet	1960-61 Acre-feet
Devil's Gate	141.	270.
Thompson Creek	0.01	

RECORDS

The daily storage and flow records at fourteen of the District dams are summarized on the Dam Operation Record Sheets, Pages 280 to 322. The sheets show:

1. Reservoir water surface elevations based on spillway datum. Elevations are obtained from water-stage recorder graphs or interpolation from staff gage readings and recorded as of midnight of each day.

2. Storage in acre-feet based on most recent topographic surveys.

3. Inflows in cubic feet per second are usually calculated from storage change and known outflow. When outflow is not known, the inflow may be determined from gaging station records or interpolated between measurements.

4. Outflows in cubic feet per second are mean daily valve and-or spillway discharge. These are determined from gaging station records, known valve openings and rating curves, or from storage change and known inflow.

5. In some instances, total monthly and yearly evaporation and percolation losses have been computed and are indicated on the Dam operation Records. Discrepancies between outflow and storage losses at certain dams were attributable to percolation and/or evaporation losses and are shown as total monthly and yearly losses. Total monthly evaporation losses are shown as determined from measurements made on floating or land evaporation pans. In those cases where no allowances were made for evaporation, the amounts are necessarily included in the flow values.

Accuracy of the flow records computed from storage records is dependent on the frequency with which storage data are revised to keep in step with physical change in reservoirs. Percentage of error is in direct proportion to the error in water surface areas through the range at which the flows were computed; normally, the error is small.

RESPONSIBILITY

The compilation of the Reservoir Records and assembly for publication during 1959-60 and 1960-61 was under the immediate supervision of R.E. Lindsay, Section Head, Reservoir and Runoff Record Section, assisted by F.E. Stunden and S.E. Blakely.

Operation of reservoirs during both storm and normal periods was under the direction of Finley B. Laverty, Assistant Chief Engineer. Maintenance and routine mechanical operation of dams and construction of various appurtenances for dams, debris basins and spreading grounds was under the supervision of R. D. Reeve, Chief, Operation and Maintenance Division, to December 31, 1959 and H.C. Porter, after that date. Mr. Porter was assisted by W.R. Ferrell beginning July 1, 1960.

76D 138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In ~~On~~ Pacoima Canyon for the Year Ending September 30, 1960

Drainage Area 28.2 Square Miles. Capacity of Reservoir 4651.0 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of June, 1958

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1	1805.9	134.3	0.6	3.6	1793.4	62.0	0.1	0	1794.4	66.7	0	0	1794.8	68.6	0.05	0	1
2	1805.0	128.1	0.6	3.6	1793.5	62.4	0.1	0	1794.4	66.7	0	0	1794.9	69.1	0.05	0	2
3	1804.1	122.1	0.6	3.6	1793.6	62.9	0.1	0	1794.4	66.7	0	0	1794.9	69.1	0.05	0	3
4	1803.2	116.2	0.6	3.6	1793.6	62.9	0.1	0	1794.3	66.2	0	0	1794.9	69.1	0.05	0	4
5	1802.3	110.5	0.6	3.6	1793.7	63.4	0.1	0	1794.3	66.2	0	0	1794.9	69.1	0.05	0	5
6	1801.3	104.3	0.6	3.5	1793.7	63.4	0.1	0	1794.3	66.2	0	0	1794.9	69.1	0.05	0	6
7	1800.4	99.0	0.6	3.5	1793.8	63.9	0.1	0	1794.3	66.2	0	0	1794.9	69.1	0.05	0	7
8	1799.4	93.1	0.6	3.5	1793.8	63.9	0.1	0	1794.3	66.2	0	0	1795.0	69.6	0.05	0	8
9	1798.4	87.5	0.6	3.4	1793.8	63.9	0.1	0	1794.3	66.2	0	0	1795.0	69.6	0.05	0	9
10	1797.4	82.1	0.6	3.3	1793.9	64.3	0.1	0	1794.3	66.2	0	0	1795.0	69.6	0.05	0	10
11	1796.4	76.7	0.5	3.2	1793.9	64.3	0.1	0	1794.3	66.2	0	0	1795.2	70.6	0.5	0	11
12	1795.4	71.6	0.5	3.1	1793.9	64.3	0.1	0	1794.3	66.2	0	0	1795.3	71.1	0.3	0	12
13	1794.4	66.7	0.5	3.1	1794.0	64.8	0.1	0	1794.3	66.2	0	0	1795.3	71.1	0.1	0	13
14	1793.3	61.5	0.4	3.0	1794.0	64.8	0.1	0	1794.3	66.2	0	0	1795.3	71.1	0.1	0	14
15	1792.2	56.6	0.4	3.0	1794.0	64.8	0.1	0	1794.3	66.2	0	0	1795.4	71.6	0.1	0	15
16	1791.8	54.9	0.4	1.0	1794.1	65.3	0.1	0	1794.3	66.2	0	0	1795.4	71.6	0.1	0	16
17	1792.1	56.1	0.3	0	1794.1	65.3	0.1	0	1794.3	66.2	0	0	1795.4	71.6	0.1	0	17
18	1792.2	56.6	0.3	0	1794.1	65.3	0.1	0	1794.4	66.7	0	0	1795.5	72.1	0.1	0	18
19	1792.2	56.6	0.3	0	1794.2	65.8	0.1	0	1794.4	66.7	0	0	1795.5	72.1	0.1	0	19
20	1792.3	57.0	0.3	0	1794.2	65.8	0.05	0	1794.4	66.7	0	0	1795.5	72.1	0.1	0	20
21	1792.4	57.5	0.3	0	1794.3	66.2	0.05	0	1794.4	66.7	0	0	1795.5	72.1	0.1	0	21
22	1792.6	58.3	0.3	0	1794.3	66.2	0.05	0	1794.4	66.7	0	0	1795.6	72.6	0.1	0	22
23	1792.7	58.8	0.2	0	1794.3	66.2	0.05	0	1794.4	66.7	0	0	1795.6	72.6	0.1	0	23
24	1792.8	59.2	0.2	0	1794.3	66.2	0.05	0	1794.6	67.7	0.5	0	1795.7	73.1	0.1	0	24
25	1792.9	59.7	0.2	0	1794.4	66.7	0.05	0	1794.6	67.7	0.1	0	1795.8	73.6	0.1	0	25
26	1793.0	60.1	0.2	0	1794.4	66.7	0.05	0	1794.7	68.2	0.1	0	1795.8	73.6	0.1	0	26
27	1793.1	60.6	0.2	0	1794.4	66.7	0.05	0	1794.7	68.2	0.1	0	1795.8	73.6	0.1	0	27
28	1793.2	61.0	0.2	0	1794.4	66.7	0.05	0	1794.7	68.2	0.05	0	1795.9	74.1	0.05	0	28
29	1793.2	61.0	0.2	0	1794.4	66.7	0.05	0	1794.7	68.2	0.05	0	1795.9	74.1	0.05	0	29
30	1793.3	61.5	0.2	0	1794.4	66.7	0	0	1794.8	68.6	0.05	0	1795.9	74.1	0.05	0	30
31	1793.4	62.0	0.2	0					1794.8	68.6	0.05	0	1796.0	74.6	0.05	0	31
TOTAL			12.3	51.6			2.4	0			1.0	0			3.0	0	
Inf. Ac. Ft.			24.4				4.8				2.0				6.0	37.2	
Outf. Ac. Ft.			102.3				0				0				0	102.3	
Maximum Mean Daily Inflow			0.6				0.1				0.5				0.5	0.6	
Minimum Mean Daily Inflow			0.2				0				0				0.05	0	
Storage Change		-78.0				+4.7				+1.9				+6.0		-65.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1806.7	feet on	10/1/59	Storage	140.0	Acre Feet			
Min. W. S. Elev.	1754. ±	feet on	VARIOUS DAYS	Storage	0	Acre Feet			
Max. Peak Inf.	2.2	C.F.S. from	9:30 P.M. on	1/11/60	to	12:15 A.M. on	1/12/60		
Max. Peak Outf.	4.2	C.F.S. from	12:00 NOON on	8/1/60	to	1:00 P.M. on	8/2/60		
REMARKS	(INDICATES AVERAGE FOR PERIOD								

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
E.K. BARR	Dam Tender	Gage Hts. copied	RAP	TS
J.R. HYDE	Hydrographer	Storage applied	RAP	TS
	Hydrographer	Inf. & Outf. comp.	RAP	TS

76D 138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In ~~On~~ Pacoima Canyon for the Year Ending September 30, 1960

Drainage Area 28.2 Square Miles. Capacity of Reservoir 4651.0 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of June, 1958

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	1796.2	75.7	0.6	0	1798.5	88.0	0.5	0	1800.9	101.9	0.2	0	1803.0	114.9	0.2	0	1
2	1796.3	76.2	0.2	0	1798.6	88.6	0.3	0	1801.0	102.5	0.2	0	1803.1	115.6	0.2	0	2
3	1796.3	76.2	0.2	0	1798.6	88.6	0.3	0	1801.0	102.5	0.2	0	1803.2	116.2	0.2	0	3
4	1796.4	76.7	0.2	0	1798.8	89.7	0.3	0	1801.1	103.1	0.2	0	1803.2	116.2	0.2	0	4
5	1796.4	76.7	0.2	0	1798.9	90.2	0.3	0	1801.1	103.1	0.2	0	1803.3	116.8	0.2	0	5
6	1796.5	77.2	0.1	0	1798.9	90.2	0.3	0	1801.2	103.7	0.2	0	1803.3	116.8	0.2	0	6
7	1796.6	77.8	0.1	0	1799.0	90.8	0.3	0	1801.3	104.3	0.2	0	1803.4	117.5	0.2	0	7
8	1796.7	78.3	0.3	0	1799.1	91.4	0.3	0	1801.4	104.9	0.2	0	1803.5	118.2	0.2	0	8
9	1796.8	78.8	0.2	0	1799.2	92.0	0.2	0	1801.4	104.9	0.2	0	1803.5	118.2	0.2	0	9
10	1796.9	79.4	0.3	0	1799.3	92.5	0.2	0	1801.5	105.6	0.2	0	1803.6	118.8	0.2	0	10
11	1796.9	79.4	0.2	0	1799.4	93.1	0.2	0	1801.6	106.2	0.2	0	1803.6	118.8	0.2	0	11
12	1797.0	79.9	0.2	0	1799.4	93.1	0.2	0	1801.7	106.8	0.2	0	1803.6	118.8	0.2	0	12
13	1797.1	80.4	0.2	0	1799.5	93.7	0.2	0	1801.8	107.4	0.2	0	1803.7	119.4	0.2	0	13
14	1797.2	81.0	0.2	0	1799.6	94.3	0.2	0	1801.8	107.4	0.2	0	1803.7	119.4	0.2	0	14
15	1797.2	81.0	0.2	0	1799.7	94.9	0.2	0	1801.9	108.0	0.2	0	1803.8	120.1	0.2	0	15
16	1797.3	81.5	0.2	0	1799.7	94.9	0.2	0	1801.9	108.0	0.2	0	1803.8	120.1	0.1	0	16
17	1797.4	82.1	0.2	0	1799.8	95.4	0.2	0	1802.0	108.6	0.2	0	1803.9	120.8	0.1	0	17
18	1797.4	82.1	0.2	0	1799.9	96.0	0.2	0	1802.0	108.6	0.2	0	1803.9	120.8	0.1	0	18
19	1797.5	82.6	0.2	0	1800.0	96.6	0.2	0	1802.1	109.2	0.2	0	1803.9	120.8	0.1	0	19
20	1797.6	83.1	0.2	0	1800.0	96.6	0.2	0	1802.1	109.2	0.2	0	1804.0	121.4	0.1	0	20
21	1797.7	83.7	0.2	0	1800.0	96.6	0.2	0	1802.2	109.9	0.2	0	1804.0	121.4	0.1	0	21
22	1797.8	84.2	0.2	0	1800.1	97.2	0.2	0	1802.3	110.5	0.2	0	1804.1	122.1	0.1	0	22
23	1797.8	84.2	0.2	0	1800.1	97.2	0.2	0	1802.3	110.5	0.2	0	1804.1	122.1	0.1	0	23
24	1797.9	84.8	0.2	0	1800.2	97.8	0.2	0	1802.4	111.1	0.2	0	1804.1	122.1	0.1	0	24
25	1797.9	84.8	0.2	0	1800.3	98.4	0.2	0	1802.4	111.1	0.1	0	1804.2	122.7	0.1	0	25
26	1798.0	85.3	0.1	0	1800.4	99.0	0.2	0	1802.5	111.8	0.1	0	1804.2	122.7	0.1	0	26
27	1798.1	85.8	0.1	0	1800.5	99.6	0.2	0	1802.8	113.6	0.9	0	1804.3	123.4	0.1	0	27
28	1798.2	86.4	0.3	0	1800.6	100.1	0.2	0	1802.9	114.3	0.4	0	1804.3	123.4	0.1	0	28
29	1798.3	87.0	0.3	0	1800.7	100.7	0.3	0	1802.9	114.3	0.2	0	1804.3	123.4	0.1	0	29
30					1800.8	101.3	0.3	0	1803.0	114.9	0.1	0	1804.4	124.1	0.1	0	30
31					1800.9	101.9	0.3	0					1804.4	124.1	0.1	0	31
TOTAL			6.2	0			7.5	0			6.6	0			4.6	0	
Inf. Ac. Ft.			12.3				14.9				13.1				9.1	86.6	
Outf. Ac. Ft.			0				0				0				0	102.3	
Maximum Mean Daily Inflow			0.6				0.5				0.9				0.2	0.9	
Minimum Mean Daily Inflow			0.1				0.2				0.1				0.1	0	
Storage Change		+12.4				+14.9				+13.0				+9.2		-15.9	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1806.7	feet on	10/1/59	Storage	140.0	Acre Feet			
Min. W. S. Elev.	1754. ±	feet on	VARIOUS DAYS	Storage	0	Acre Feet			
Max. Peak Inf.	2.2	C.F.S. from	9:30 P.M. on	1/11/60	to	12:15 A.M. on	1/12/60		
Max. Peak Outf.	4.2	C.F.S. from	12:00 NOON on	8/1/60	to	1:00 P.M. on	8/2/60		
REMARKS	(INDICATES AVERAGE FOR PERIOD								

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
E.K. BARR	Dam Tender	Gage Hts. copied	RAP	HRW TS
J.R. HYDE	Hydrographer	Storage applied	RAP	HRW TS
	Hydrographer	Inf. & Outf. comp.	RAP	HRW TS

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1960

On

Drainage Area 26.2 Square Miles. Capacity of Reservoir 4651.0 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of June 1958

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	1804.4	124.1	0.2	0	1805.3	130.2	0.04	0	1805.0	128.1	0.4	1.8			0.5	0.5	1
2	1804.5	124.8	0.1	0	1805.3	130.2	0.04	0	1804.0	121.4	0.4	3.7			0.4	0.4	2
3	1804.5	124.8	0.1	0	1805.3	130.2	0.04	0	1803.2	116.2	0.4	3.0			0.4	0.4	3
4	1804.6	125.4	0.1	0	1805.3	130.2	0.04	0	1802.4	111.1	0.4	3.0			0.3	0.3	4
5	1804.6	125.4	0.1	0	1805.4	130.9	0.04	0	1801.5	105.6	0.4	3.0			0.3	0.3	5
6	1804.7	126.1	0.1	0	1805.4	130.9	0.04	0	1800.6	100.1	0.4	3.0			0.2	0.2	6
7	1804.7	126.1	0.1	0	1805.4	130.9	0.04	0	1799.7	94.9	0.4	3.0			0.2	0.2	7
8	1804.8	126.8	0.1	0	1805.4	130.9	0.03	0	1798.8	89.7	0.4	3.0			0.2	0.2	8
9	1804.8	126.8	0.1	0	1805.4	130.9	0.03	0	1797.8	84.2	0.4	3.0			0.2	0.2	9
10	1804.8	126.8	0.1	0	1805.4	130.9	0.03	0	1796.9	79.4	0.4	3.0			0.2	0.2	10
11	1804.9	127.4	0.1	0	1805.5	131.6	0.03	0	1795.9	74.1	0.4	3.0			0.2	0.2	11
12	1804.9	127.4	0.1	0	1805.5	131.6	0.03	0	1794.8	68.6	0.4	3.0			0.2	0.2	12
13	1804.9	127.4	0.1	0	1805.5	131.6	0.03	0	1793.7	63.4	0.4	3.0			0.2	0.2	13
14	1805.0	128.1	0.1	0	1805.5	131.6	0.03	0	1792.6	58.3	0.4	3.0			0.2	0.2	14
15	1805.0	128.1	0.1	0	1805.5	131.6	0.03	0	1791.4	53.2	0.4	3.0			0.2	0.2	15
16	1805.0	128.1	0.1	0	1805.5	131.6	0.03	0	1790.2	48.4	0.4	3.0			0.2	0.2	16
17	1805.1	128.8	0.1	0	1805.5	131.6	0.03	0	1789.0	44.0	0.4	3.0			0.2	0.2	17
18	1805.1	128.8	0.1	0	1805.5	131.6	0.03	0	1787.6	39.3	0.4	2.9			0.2	0.2	18
19	1805.1	128.8	0.1	0	1805.5	131.6	0.03	0	1786.1	34.7	0.4	2.9			0.2	0.2	19
20	1805.2	129.5	0.1	0	1805.5	131.6	0.03	0	1784.3	30.0	0.4	2.9			0.2	0.2	20
21	1805.2	129.5	0.1	0	1805.5	131.6	0.03	0	1782.4	25.6	0.4	2.8			0.2	0.2	21
22	1805.2	129.5	0.1	0	1805.5	131.6	0.03	0	1780.3	21.2	0.3	2.8			0.2	0.2	22
23	1805.2	129.5	0.1	0	1805.5	131.6	0.03	0	1777.8	16.6	0.3	2.8			0.2	0.2	23
24	1805.2	129.5	0.1	0	1805.5	131.6	0.03	0	1775.0	12.0	0.3	2.7			0.1	0.1	24
25	1805.2	129.5	0.1	0	1805.6	132.2	0.03	0	1772.1	8.4	0.3	2.3			0.1	0.1	25
26	1805.3	130.2	0.1	0	1805.6	132.2	0.03	0	1768.2	3.2	0.3	2.6			0.1	0.1	26
27	1805.3	130.2	0.1	0	1805.6	132.2	0.03	0	1761.0	1.4	0.3	1.0			0.1	0.1	27
28	1805.3	130.2	0.1	0	1805.6	132.2	0.03	0	1759.0	0.8	0.3	0.6			0.1	0.1	28
29	1805.3	130.2	0.1	0	1805.6	132.2	0.03	0		0	0.3	0.6			0.1	0.1	29
30	1805.3	130.2	0.1	0	1805.6	132.2	0.03	0		0	0.6	0.6			0.1	0.1	30
31					1805.6	132.2	0.03	0		0	0.6	0.6					31
TOTAL			3.1	0			1.0	0			12.0	78.6			6.2	6.2	
Inf. Ac. Ft.			6.1				2.0				23.8				12.3	130.8	
Outf. Ac. Ft.			0				0				15.9				12.5	270.5	
Maximum Mean Daily Inflow			0.2				0.04				0.6				0.5	0.9	
Minimum Mean Daily Inflow			0.1				0.03				0.3				0.1	0	
Storage Change		+6.1				+2.0				-132				0		-140.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1806.7	feet	on	10/1/59	Storage	140.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1754.±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	E.K. BARR	Dam Tender	Gage Hts. copied	RAP	TS
Max. Peak Inf.	2.2	C.F.S. from	9:30 P.M.	on	1/11/60	to	12:15 A.M.	on	1/12/60	J.R. HYDE	Hydrographer	Storage applied	RAP	TS
Max. Peak Outf.	4.2	C.F.S. from	12:00 NOON	on	8/1/60	to	1:00 P.M.	on	8/2/60		Hydrographer	Inf. & Outf. comp.	RAP	TS

REMARKS [INDICATES AVERAGE FOR PERIOD

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1961

On

Drainage Area 28.2 Square Miles. Capacity of Reservoir 4651.0 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of June 1958

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1			0.1	0.1	1759.4	0.9	0.1	0	1785.7	33.6	0.08	0	1786.8	36.8	0	0	1
2			0.1	0.1	1760.0	1.0	0.1	0	1785.9	34.1	0.08	0	1786.8	36.8	0	0	2
3			0.1	0.1	1760.3	1.2	0.05	0	1785.9	34.1	0.08	0	1786.8	36.8	0	0	3
4			0.1	0.1	1760.5	1.2	0.05	0	1786.0	34.4	0.07	0	1786.8	36.8	0	0	4
5			0.1	0.1	1761.1	1.38	6.3	0	1786.1	34.7	0.07	0	1786.8	36.8	0	0	5
6			0.1	0.1	1782.2	25.1	5.7	0	1786.2	35.0	0.07	0	1786.8	36.8	0	0	6
7			0.1	0.1	1782.2	25.1	0	0	1786.3	35.3	0.07	0	1786.8	36.8	0	0	7
8			0.1	0.1	1782.2	25.1	0	0	1786.3	35.3	0.07	0	1786.8	36.8	0	0	8
9			0.1	0.1	1782.2	25.1	0	0	1786.4	35.6	0.07	0	1786.8	36.8	0	0	9
10			0.1	0.1	1782.2	25.1	0	0	1786.4	35.6	0.07	0	1786.8	36.8	0	0	10
11		NO STORAGE	0.1	0.1	1782.2	25.1	0	0	1786.5	35.9	0.07	0	1786.8	36.8	0	0	11
12			0.1	0.1	1783.9	29.1	2.0	0	1786.5	35.9	0.07	0	1786.8	36.8	0	0	12
13			0.1	0.1	1784.5	30.5	0.7	0	1786.6	36.2	0.07	0	1786.8	36.8	0	0	13
14			0.1	0.1	1784.5	30.5	0.05	0	1786.6	36.2	0.07	0	1786.8	36.8	0	0	14
15			0.1	0.1	1784.6	30.7	0.05	0	1786.7	36.5	0.07	0	1786.8	36.8	0	0	15
16			0.1	0.1	1784.6	30.7	0.05	0	1786.7	36.5	0.07	0	1786.8	36.8	0	0	16
17			0.1	0.1	1784.6	30.7	0.05	0	1786.8	36.8	0.07	0	1786.8	36.8	0	0	17
18			0.1	0.1	1784.7	31.0	0.05	0	1786.8	36.8	0.07	0	1786.8	36.8	0	0	18
19			0.1	0.1	1784.8	31.2	0.05	0	1786.9	37.1	0.07	0	1786.8	36.8	0	0	19
20			0.1	0.1	1784.8	31.2	0.05	0	1786.9	37.1	0.07	0	1786.8	36.8	0	0	20
21			0.1	0.1	1784.9	31.5	0.05	0	1786.9	37.1	0.07	0	1786.8	36.8	0.1	0.1	21
22			0.1	0.1	1784.9	31.5	0.05	0	1787.0	37.4	0.07	0	1786.8	36.8	0	0	22
23			0.1	0.1	1784.9	31.5	0.05	0	1787.0	37.4	0.07	0	1786.8	36.8	0	0	23
24			0.1	0.1	1785.0	31.7	0.05	0	1786.9	37.1	0.07	0	1786.8	36.8	0	0	24
25			0.1	0.1	1785.0	31.7	0.05	0	1786.9	37.1	0.07	0.1	1786.8	36.8	0	0	25
26			0.1	0.1	1785.3	32.5	0.4	0	1786.8	36.8	0.07	0.1	1786.8	36.8	0.2	0.1	26
27			0.1	0.1	1785.5	33.0	0.1	0	1786.8	36.8	0.07	0.1	1786.9	37.1	0.2	0	27
28			0.1	0.1	1785.5	33.0	0.1	0	1786.8	36.8	0.07	0	1787.0	37.4	0.2	0	28
29	1756.9	0.2	0.1	0	1785.6	33.3	0.1	0	1786.8	36.8	0.07	0.1	1787.1	37.7	0.1	0	29
30	1757.9	0.5	0.2	0	1785.6	33.3	0.1	0	1786.8	36.8	0.07	0	1787.2	38.0	0.1	0	30
31	1758.7	0.7	0.1	0					1786.8	36.8	0.07	0	1787.3	38.3	0.1	0	31
TOTAL			3.2	2.8			16.4	0			2.2	0.4			1.0	0.2	
Inf. Ac. Ft.			6.3				32.5				4.4				2.0	4.2	
Outf. Ac. Ft.			5.6				0				0.8				0.4	6.8	
Maximum Mean Daily Inflow			0.2				6.3				0.08				0.2	6.3	
Minimum Mean Daily Inflow			0.1				0				0.07				0	0	
Storage Change		+0.7				+32.6				+3.5				+1.5		+3.8.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1791.2	feet	on	VARIOUS DAYS	Storage	52.4	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1754.±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	E.K. BARR	Dam Tender	Gage Hts. copied	RAP	GLW
Max. Peak Inf.	60.5	C.F.S. from	7:30 P.M.	on	11/12/60	to	8:00 P.M.	on	11/12/60	J.R. HYDE	Hydrographer	Storage applied	RAP	GLW
Max. Peak Outf.	0	C.F.S. from		on		to		on			Hydrographer	Inf. & Outf. comp.	RAP	GLW

REMARKS [INDICATES AVERAGE FOR PERIOD.

76D138N-68B C/b 12-57

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1961

Drainage Area 26.2 Square Miles. Capacity of Reservoir 4651.0 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of June 1958

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	1787.4	38.6	0.07	0	1788.4	41.9	0.06	0	1789.4	45.4	0.04	0	1790.2	48.4	0.04	0	1
2	1787.4	38.6	0.07	0	1788.4	41.9	0.06	0	1789.4	45.4	0.04	0	1790.2	48.4	0.04	0	2
3	1787.5	39.0	0.07	0	1788.4	41.9	0.06	0	1789.4	45.4	0.04	0	1790.2	48.4	0.04	0	3
4	1787.5	39.0	0.07	0	1788.4	41.9	0.06	0	1789.4	45.4	0.04	0	1790.2	48.4	0.04	0	4
5	1787.6	39.3	0.07	0	1788.5	42.2	0.06	0	1789.4	45.4	0.04	0	1790.3	48.8	0.04	0	5
6	1787.6	39.3	0.07	0	1788.5	42.2	0.05	0	1789.5	45.8	0.2	0	1790.3	48.8	0.04	0	6
7	1787.7	39.6	0.07	0	1788.5	42.2	0.05	0	1789.5	45.8	0.06	0	1790.3	48.8	0.04	0	7
8	1787.7	39.6	0.07	0	1788.5	42.2	0.05	0	1789.6	46.2	0.06	0	1790.3	48.8	0.04	0	8
9	1787.8	39.9	0.07	0	1788.5	42.2	0.05	0	1789.7	46.5	0.06	0	1790.3	48.8	0.04	0	9
10	1787.9	40.2	0.07	0	1788.6	42.6	0.05	0	1789.7	46.5	0.06	0	1790.4	49.2	0.04	0	10
11	1787.9	40.2	0.07	0	1788.6	42.6	0.05	0	1789.8	46.9	0.06	0	1790.4	49.2	0.04	0	11
12	1788.0	40.5	0.07	0	1788.6	42.6	0.05	0	1789.8	46.9	0.06	0	1790.4	49.2	0.04	0	12
13	1788.0	40.5	0.06	0	1788.6	42.6	0.05	0	1789.8	46.9	0.06	0	1790.4	49.2	0.04	0	13
14	1788.0	40.5	0.06	0	1788.6	42.6	0.05	0	1789.8	46.9	0.06	0	1790.4	49.2	0.04	0	14
15	1788.1	40.8	0.06	0	1788.6	42.6	0.05	0	1789.9	47.2	0.06	0	1790.4	49.2	0.04	0	15
16	1788.1	40.8	0.06	0	1788.7	43.0	0.05	0	1789.9	47.2	0.06	0	1790.5	49.6	0.04	0	16
17	1788.1	40.8	0.06	0	1788.8	43.3	0.05	0	1789.9	47.2	0.05	0	1790.5	49.6	0.04	0	17
18	1788.2	41.2	0.06	0	1788.8	43.3	0.05	0	1789.9	47.2	0.05	0	1790.5	49.6	0.04	0	18
19	1788.2	41.2	0.06	0	1788.8	43.3	0.05	0	1789.9	47.2	0.05	0	1790.5	49.6	0.04	0	19
20	1788.3	41.6	0.06	0	1788.9	43.6	0.05	0	1790.0	47.6	0.05	0	1790.6	50.0	0.04	0	20
21	1788.3	41.6	0.06	0	1788.9	43.6	0.05	0	1790.0	47.6	0.05	0	1790.6	50.0	0.04	0	21
22	1788.4	41.9	0.06	0	1789.0	44.0	0.05	0	1790.0	47.6	0.05	0	1790.6	50.0	0.04	0	22
23	1788.4	41.9	0.06	0	1789.0	44.0	0.05	0	1790.0	47.6	0.05	0	1790.6	50.0	0.04	0	23
24	1788.4	41.9	0.06	0	1789.0	44.0	0.05	0	1790.0	47.6	0.05	0	1790.6	50.0	0.04	0	24
25	1788.4	41.9	0.06	0	1789.1	44.4	0.05	0	1790.0	47.6	0.05	0	1790.6	50.0	0.04	0	25
26	1788.4	41.9	0.06	0	1789.1	44.4	0.05	0	1790.1	48.0	0.05	0	1790.7	50.4	0.04	0	26
27	1788.4	41.9	0.06	0	1789.2	44.7	0.05	0	1790.1	48.0	0.05	0	1790.7	50.4	0.04	0	27
28	1788.4	41.9	0.06	0	1789.2	44.7	0.05	0	1790.2	48.4	0.05	0	1790.7	50.4	0.03	0	28
29					1789.3	45.1	0.05	0	1790.2	48.4	0.05	0	1790.7	50.4	0.03	0	29
30					1789.3	45.1	0.05	0	1790.2	48.4	0.05	0	1790.7	50.4	0.03	0	30
31					1789.3	45.1	0.05	0					1790.8	50.8	0.03	0	31
TOTAL			1.8	0			1.6	0			1.7	0			1.2	0	
Inf. Ac. Ft.			3.6				3.2				3.4				2.4	57.8	
Outf. Ac. Ft.			0				0				0				0	6.8	
Maximum Mean Daily Inflow			0.07				0.06				0.2				0.04	6.3	
Minimum Mean Daily Inflow			0.06				0.05				0.04				0.03	0	
Storage Change		+3.6				+3.2				+3.3				+2.4		+50.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1791.2	feet	on VARIOUS DAYS	Storage	52.4	Acre Feet			
Min. W. S. Elev.	1754. +	feet	on VARIOUS DAYS	Storage	0	Acre Feet			
Max. Peak Inf.	60.5	C. F. S. from	7:30 P.M.	on	11/12/60	to	8:00 P.M.	on	11/12/60
Max. Peak Outf.	0	C. F. S. from		on		to		on	
REMARKS	(INDICATES AVERAGE FOR PERIOD								

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
E.K. BARR	Dam Tender	Gage Hts. copied	RAP	GLW
J.R. HYDE	Hydrographer	Storage applied	RAP	GLW
	Hydrographer	Inf. & Outf. comp.	RAP	GLW

76D138N-68B C/b 12-57

Daily Gage Height in feet and Operation Record of PACOIMA Dam

In Pacoima Canyon for the Year Ending September 30, 1961

Drainage Area 26.2 Square Miles. Capacity of Reservoir 4651.0 Ac. Ft. at Spillway Elev. 1950.0 Ft. as of June 1958

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	1790.8	50.8	0.03	0	1791.2	52.4	0	0	1791.1	52.0	0	0	1790.6	50.0	0	0	1
2	1790.8	50.8	0.03	0	1791.2	52.4	0	0	1791.1	52.0	0	0	1790.6	50.0	0	0	2
3	1790.8	50.8	0.03	0	1791.2	52.4	0	0	1791.1	52.0	0	0	1790.6	50.0	0	0	3
4	1790.9	51.2	0.03	0	1791.2	52.4	0	0	1791.1	52.0	0	0	1790.6	50.0	0	0	4
5	1790.9	51.2	0.03	0	1791.1	52.0	0	0.2	1791.1	52.0	0	0	1790.5	49.6	0	0.2	5
6	1790.9	51.2	0.03	0	1791.1	52.0	0	0	1791.1	52.0	0	0	1790.5	49.6	0	0	6
7	1790.9	51.2	0.03	0	1791.1	52.0	0	0	1791.1	52.0	0	0	1790.5	49.6	0	0	7
8	1791.0	51.6	0.03	0	1791.1	52.0	0	0	1791.1	52.0	0	0	1790.5	49.6	0	0	8
9	1791.0	51.6	0.03	0	1791.1	52.0	0	0	1791.1	52.0	0	0	1790.4	49.2	0	0.2	9
10	1791.0	51.6	0.03	0	1791.1	52.0	0	0	1791.1	52.0	0	0	1790.4	49.2	0	0	10
11	1791.0	51.6	0.03	0	1791.1	52.0	0	0	1791.0	51.6	0	0.2	1790.4	49.2	0	0	11
12	1791.0	51.6	0.03	0	1791.1	52.0	0	0	1791.0	51.6	0	0	1790.3	48.8	0	0.2	12
13	1791.1	52.0	0.03	0	1791.1	52.0	0	0	1791.0	51.6	0	0	1790.3	48.8	0	0	13
14	1791.1	52.0	0.03	0	1791.1	52.0	0	0	1791.0	51.6	0	0	1790.3	48.8	0	0	14
15	1791.1	52.0	0.03	0	1791.1	52.0	0	0	1791.0	51.6	0	0	1790.3	48.8	0	0	15
16	1791.1	52.0	0.03	0	1791.1	52.0	0	0	1791.0	51.6	0	0	1790.3	48.8	0	0	16
17	1791.1	52.0	0.03	0	1791.1	52.0	0	0	1791.0	51.6	0	0	1790.3	48.8	0	0	17
18	1791.1	52.0	0.03	0	1791.1	52.0	0	0	1791.0	51.6	0	0	1790.2	48.4	0	0.2	18
19	1791.1	52.0	0.03	0	1791.1	52.0	0	0	1791.0	51.6	0	0	1790.2	48.4	0	0	19
20	1791.1	52.0	0.03	0	1791.1	52.0	0	0	1791.0	51.6	0	0	1790.2	48.4	0	0	20
21	1791.1	52.0	0.02	0	1791.1	52.0	0	0	1791.0	51.6	0	0	1790.2	48.4	0	0	21
22	1791.1	52.0	0.02	0	1791.1	52.0	0	0	1790.9	51.2	0	0.2	1790.2	48.4	0	0	22
23	1791.1	52.0	0.02	0	1791.1	52.0	0	0	1790.9	51.2	0	0	1790.1	48.0	0	0.2	23
24	1791.1	52.0	0.02	0	1791.1	52.0	0	0	1790.9	51.2	0	0	1790.1	48.0	0	0	24
25	1791.2	52.4	0.02	0	1791.1	52.0	0	0	1790.9	51.2	0	0	1790.1	48.0	0	0	25
26	1791.2	52.4	0.02	0	1791.1	52.0	0	0	1790.9	51.2	0	0	1790.1	48.0	0	0	26
27	1791.2	52.4	0.02	0	1791.1	52.0	0	0	1790.8	50.8	0	0.2	1790.1	48.0	0	0	27
28	1791.2	52.4	0.02	0	1791.1	52.0	0	0	1790.8	50.8	0	0	1790.1	48.0	0	0	28
29	1791.2	52.4	0.02	0	1791.1	52.0	0	0	1790.7	50.4	0	0.2	1790.1	48.0	0	0	29
30	1791.2	52.4	0.02	0	1791.1	52.0	0	0	1790.7	50.4	0	0	1790.1	48.0	0	0	30
31					1791.1	52.0	0	0	1790.6	50.0	0	0.2					31
TOTAL			0.8	0			0	0.2			0	1.0			0	1.0	
Inf. Ac. Ft.			1.6				0				0				0	59.4	
Outf. Ac. Ft.			0				0.4				2.0				2.0	11.2	
Maximum Mean Daily Inflow			0.03				0				0				0	6.3	
Minimum Mean Daily Inflow			0.02				0				0				0	0	
Storage Change		+1.6				-0.4				-2.0				-2.0		+48.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1791.2	feet	on VARIOUS DAYS	Storage	52.4	Acre Feet			
Min. W. S. Elev.	1754. +	feet	on VARIOUS DAYS	Storage	0	Acre Feet			
Max. Peak Inf.	60.5	C. F. S. from	7:30 P.M.	on	11/12/60	to	8:00 P.M.	on	11/12/60
Max. Peak Outf.	0	C. F. S. from		on		to		on	
REMARKS	(INDICATES AVERAGE FOR PERIOD								

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
E.K. BARR	Dam Tender	Gage Hts. copied	HRW	GLW
J.R. HYDE	Hydrographer	Storage applied	GLW	RAP
	Hydrographer	Inf. & Outf. comp.	RAP	GLW

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam

In Big Tujunga Canyon for the Year Ending September 30, 1960

Drainage Area 82.3 Square Miles. Capacity of Reservoir 4123.0 Ac. Ft. at Spillway Elev. 2290.0 Ft. as of June 1958

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1	2214.5	565.6	0.5	4.9	2204.3	385.3	0.4	2.7	2198.6	303.4	0.9	0.7	2202.3	355.5	1.7	0.7	1
2	2214.0	555.2	0.5	4.9	2204.0	380.7	0.4	2.7	2198.7	304.8	1.0	0.7	2202.4	357.0	1.7	0.7	2
3	2213.6	547.1	0.4	4.9	2203.7	376.2	0.4	2.7	2198.7	304.8	1.0	0.7	2202.5	358.4	1.7	0.7	3
4	2213.1	536.9	0.4	4.9	2203.4	371.8	0.4	2.7	2198.8	306.1	1.0	0.7	2202.6	359.9	1.7	0.7	4
5	2212.7	529.0	0.4	4.9	2203.1	367.3	0.5	2.7	2198.8	306.1	1.0	0.7	2202.8	362.9	1.7	0.7	5
6	2212.3	521.2	0.4	4.9	2202.8	362.9	0.5	2.7	2198.8	306.1	1.1	0.7	2202.9	364.5	1.6	0.7	6
7	2211.8	511.6	0.4	4.9	2202.5	358.4	0.5	2.7	2198.9	307.5	1.1	0.7	2203.1	367.3	1.6	0.8	7
8	2211.3	502.2	0.4	4.9	2202.2	354.0	0.5	2.7	2198.9	307.5	1.1	0.7	2203.2	368.8	1.6	0.8	8
9	2211.0	496.6	0.4	3.8	2201.9	349.7	0.5	2.7	2199.0	308.8	1.1	0.7	2203.4	371.8	2.3	0.8	9
10	2210.7	491.2	0.4	2.9	2201.6	345.3	0.5	2.7	2199.1	310.2	1.1	0.7	2204.1	382.2	6.0	0.8	10
11	2210.4	485.8	0.4	2.9	2201.3	341.0	0.5	2.7	2199.2	311.6	1.2	0.7	2205.0	396.0	7.8	0.8	11
12	2210.2	482.2	0.4	2.9	2201.0	336.7	0.5	2.7	2199.3	312.9	1.2	0.7	2206.4	418.1	11.9	0.8	12
13	2209.9	476.8	0.4	2.9	2200.7	332.5	0.5	2.7	2199.4	314.3	1.3	0.7	2206.9	426.1	4.9	0.8	13
14	2209.6	471.6	0.4	2.9	2200.4	328.2	0.5	2.7	2199.5	315.7	1.3	0.7	2207.4	434.3	4.9	0.8	14
15	2209.3	466.4	0.4	2.9	2200.1	324.0	0.5	2.7	2199.5	315.7	1.3	0.7	2207.9	442.5	4.9	0.8	15
16	2209.0	461.1	0.4	2.9	2199.8	319.8	0.5	2.7	2199.6	317.1	1.4	0.7	2208.3	449.2	4.2	0.8	16
17	2208.7	456.0	0.4	2.8	2199.5	315.7	0.5	2.7	2199.7	318.5	1.4	0.7	2208.5	452.6	3.1	0.8	17
18	2208.4	450.9	0.4	2.8	2199.2	311.6	0.5	2.7	2199.8	319.8	1.4	0.7	2208.8	457.7	3.1	0.8	18
19	2208.1	445.8	0.4	2.8	2198.8	306.1	0.5	2.6	2199.9	321.2	1.4	0.7	2209.1	462.8	3.1	0.8	19
20	2207.8	440.8	0.4	2.8	2198.7	304.8	0.5	1.3	2200.0	322.6	1.4	0.7	2209.3	466.4	3.1	0.8	20
21	2207.5	435.9	0.4	2.8	2198.7	304.8	0.6	0.7	2200.2	325.4	1.8	0.7	2209.6	471.6	3.0	0.8	21
22	2207.2	431.0	0.4	2.8	2198.6	303.4	0.6	0.7	2200.3	326.8	1.9	0.7	2209.8	475.1	3.0	0.9	22
23	2206.9	426.1	0.3	2.8	2198.6	303.4	0.6	0.7	2200.5	329.6	1.9	0.7	2210.0	478.6	3.0	0.9	23
24	2206.6	421.3	0.3	2.7	2198.6	303.4	0.6	0.7	2200.9	335.3	3.6	0.7	2210.3	484.4	3.0	0.9	24
25	2206.4	418.1	0.3	2.7	2198.6	303.4	0.6	0.7	2201.3	341.0	3.6	0.7	2210.6	489.4	3.5	0.9	25
26	2206.1	413.3	0.3	2.7	2198.5	302.1	0.6	0.7	2201.4	342.5	1.8	0.7	2211.0	496.6	4.5	0.9	26
27	2205.8	408.6	0.3	2.7	2198.5	302.1	0.6	0.7	2201.6	345.3	1.8	0.7	2211.3	502.2	3.3	0.9	27
28	2205.5	403.8	0.3	2.7	2198.6	303.4	0.7	0.7	2201.8	348.2	1.8	0.7	2211.5	506.0	3.3	1.0	28
29	2205.2	399.1	0.5	2.7	2198.6	303.4	0.7	0.7	2201.9	349.7	1.8	0.7	2211.8	511.6	3.3	1.0	29
30	2204.9	394.5	0.3	2.7	2198.6	303.4	0.7	0.7	2202.0	351.1	1.8	0.7	2212.0	515.3	3.2	1.0	30
31	2204.6	389.9	0.3	2.7					2202.2	354.0	1.7	0.7	2212.2	519.2	3.2	1.0	31
TOTAL			11.7	104.5			15.9	59.5			47.2	21.7			108.9	25.6	
Inf. Ac. Ft.			232.2				315				936				2160	364.3	
Outf. Ac. Ft.			207.3				1180				430				508	419.1	
Maximum Mean Daily Inflow			0.5				0.7				3.6				11.9	11.9	
Minimum Mean Daily Inflow			0.3				0.4				0.9				1.6	0.3	
Storage Change	-184.1				-865				+50.6				+165.2			-54.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2232.6	feet	on 5/3 & 5/4/60	Storage	1021.	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	2178.8	feet	on 9/30/60	Storage	103.2	Acre Feet	W.L. CROKE	Dam Tender	Gage Hts. copied	RAP	TS
Max. Peak Inf.	23.8	C.F.S. from	2:00 A.M. on 1/12/60	to	3:00 A.M.	on 1/12/60	J.R. HYDE	Hydrographer	Storage applied	RAP	TS
Max. Peak Outf.	7.2	C.F.S. from	3:30 P.M. on 7/22/60	to	11:00 A.M.	on 7/23/60		Hydrographer	Inf. & Outf. comp.	RAP	TS

REMARKS [INDICATES AVERAGE FOR PERIOD

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam

In Big Tujunga Canyon for the Year Ending September 30, 1960

Drainage Area 82.3 Square Miles. Capacity of Reservoir 4123.0 Ac. Ft. at Spillway Elev. 2290.0 Ft. as of June 1958

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	2212.5	525.1	4.0	1.0	2221.3	717.7	6.1	0.1	2228.8	911.2	2.7	0.1	2232.4	1015.0	2.5	1.0	1
2	2213.0	534.9	5.9	1.0	2221.7	727.3	4.9	0.1	2229.0	916.7	2.6	0.1	2232.5	1018.0	2.5	1.0	2
3	2213.4	543.0	5.1	1.0	2222.1	736.9	4.6	0.1	2229.1	919.5	2.5	0.1	2232.6	1021.0	2.2	2.2	3
4	2213.7	549.1	4.0	1.0	2222.4	744.3	4.6	0.1	2229.3	925.2	2.4	0.1	2232.5	1018.0	2.6	3.8	4
5	2214.0	555.2	3.9	1.0	2222.8	754.0	4.6	0.1	2229.4	928.0	2.2	0.1	2232.5	1018.0	2.2	3.8	5
6	2214.2	559.4	3.9	1.0	2223.0	758.9	3.7	0.1	2229.6	933.6	2.0	0.1	2232.4	1015.0	2.2	3.8	6
7	2214.5	565.6	3.9	1.0	2223.3	766.4	3.6	0.1	2229.7	936.4	1.9	0.1	2232.3	1012.0	2.2	3.8	7
8	2214.8	571.9	3.9	1.0	2223.6	773.9	3.6	0.1	2229.8	939.3	1.8	0.4	2232.2	1009.0	2.1	3.8	8
9	2215.1	578.2	3.8	0.7	2223.9	781.4	3.6	0.1	2229.9	942.1	1.7	1.0	2232.0	1003.0	2.1	3.8	9
10	2215.4	584.7	3.4	0.1	2224.2	789.0	3.6	0.1	2230.0	944.9	1.7	1.0	2231.9	1000.1	2.1	3.8	10
11	2215.7	591.1	3.2	0.1	2224.4	794.1	3.1	0.1	2230.1	947.8	1.6	1.0	2231.7	994.2	2.1	3.8	11
12	2216.0	597.5	3.2	0.1	2224.7	801.8	3.1	0.1	2230.1	947.8	1.6	1.0	2231.5	988.4	2.1	3.8	12
13	2216.3	604.0	3.1	0.1	2224.9	806.8	3.0	0.1	2230.1	947.8	1.6	1.0	2231.3	982.5	1.7	4.5	13
14	2216.6	610.6	3.1	0.1	2225.2	814.6	3.0	0.1	2230.2	950.7	1.6	1.0	2231.1	976.6	1.7	5.5	14
15	2216.8	614.9	3.1	0.1	2225.4	819.8	3.0	0.1	2230.2	950.7	1.5	1.0	2230.8	967.9	1.7	5.5	15
16	2217.0	619.3	3.0	0.1	2225.6	825.0	3.0	0.1	2230.2	950.7	1.5	1.0	2230.6	962.2	1.7	5.5	16
17	2217.3	626.0	3.0	0.1	2225.7	827.6	3.0	0.1	2230.3	953.5	1.5	1.0	2230.3	953.5	1.6	5.5	17
18	2217.6	632.6	3.0	0.1	2226.0	835.4	3.0	0.1	2230.3	953.5	1.5	1.0	2230.1	947.8	1.6	5.5	18
19	2217.8	637.1	3.0	0.1	2226.2	840.7	2.9	0.1	2230.3	953.5	1.5	1.0	2229.8	939.3	1.6	5.5	19
20	2218.1	643.8	3.0	0.1	2226.4	846.0	2.8	0.1	2230.3	953.5	1.4	1.0	2229.6	933.6	1.6	5.5	20
21	2218.3	648.3	2.9	0.1	2226.6	851.4	2.8	0.1	2230.4	956.4	1.4	1.0	2229.3	925.2	1.6	5.5	21
22	2218.6	655.1	2.9	0.1	2226.8	856.7	2.8	0.1	2230.4	956.4	1.4	1.0	2229.0	916.7	1.6	5.5	22
23	2218.8	659.6	2.9	0.1	2227.0	862.0	2.8	0.1	2230.4	956.4	1.4	1.0	2228.7	908.4	1.6	5.4	23
24	2219.0	664.1	2.9	0.1	2227.2	867.4	2.8	0.1	2230.5	959.3	1.4	1.0	2228.4	900.1	1.6	5.4	24
25	2219.3	671.0	2.9	0.1	2227.4	872.8	2.8	0.1	2230.5	959.3	1.4	1.0	2228.1	891.9	1.6	5.4	25
26	2219.6	677.9	2.9	0.1	2227.6	878.3	2.8	0.1	2230.7	965.1	3.9	1.0	2227.8	883.7	1.6	5.4	26
27	2219.8	682.5	2.9	0.1	2227.8	883.7	2.8	0.1	2231.4	985.4	11.2	1.0	2227.6	878.3	1.6	5.4	27
28	2220.2	691.8	4.8	0.1	2228.0	889.1	2.8	0.1	2231.9	1000.1	8.4	1.0	2227.3	870.1	1.6	5.4	28
29	2220.8	705.8	7.2	0.1	2228.3	897.4	4.3	0.1	2232.2	1009.0	5.5	1.0	2227.0	862.0	1.6	5.4	29
30					2228.5	902.9	2.9	0.1	2232.3	1012.0	2.5	1.0	2226.7	854.0	1.6	5.4	30
31					2228.7	908.4	2.8	0.1					2226.4	846.0	1.6	5.4	31
TOTAL			104.8	10.7			105.2	3.1			75.3	23.1			57.3	141.0	
Inf. Ac. Ft.			207.9				209.7				149.4				113.7	1044.0	
Outf. Ac. Ft.			21.2				6.1				45.8				275.7	771.9	
Maximum Mean Daily Inflow			7.2				6.1				11.2				2.5	11.9	
Minimum Mean Daily Inflow			2.9				2.8				1.4				1.6	0.3	
Storage Change	+186.6				+202.6				+103.6				-166.0			+272.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2232.6	feet	on 5/3 & 5/4/60	Storage	1021.	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	2178.8	feet	on 9/30/60	Storage	103.2	Acre Feet	W.L. CROKE	Dam Tender	Gage Hts. copied	RAP	TS
Max. Peak Inf.	23.8	C.F.S. from	2:00 A.M. on 1/12/60	to	3:00 A.M.	on 1/12/60	J.R. HYDE	Hydrographer	Storage applied	RAP	TS
Max. Peak Outf.	7.2	C.F.S. from	3:30 P.M. on 7/22/60	to	11:00 A.M.	on 7/23/60		Hydrographer	Inf. & Outf. comp.	RAP	TS

REMARKS [INDICATES AVERAGE FOR PERIOD

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam

In ~~On~~ Big Tujunga Canyon for the Year Ending September 30, 19 60

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 4123.0 Ac. Ft. at Spillway Elev. 2290.0 Ft. as of June, 19 58 Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	2226.0	835.4	0.7	5.9	2211.3	502.2	0.6	6.0	2191.9	221.2	0.4	2.4	2183.6	140.1	0.5	1.2	1
2	2225.6	825.0	0.7	6.4	2210.8	493.0	0.6	5.9	2191.6	217.9	0.4	2.4	2183.4	138.4	0.5	1.2	2
3	2225.2	814.6	0.7	6.4	2210.2	482.2	0.6	5.9	2191.2	213.5	0.4	2.4	2183.3	137.6	0.5	1.2	3
4	2224.7	801.8	0.7	6.4	2209.7	473.4	0.6	5.9	2190.9	210.2	0.4	2.4	2183.1	135.9	0.5	1.2	4
5	2224.2	789.0	0.7	6.4	2209.1	462.8	0.6	5.9	2190.5	206.0	0.4	2.4	2182.9	134.3	0.5	1.2	5
6	2223.8	778.9	0.7	6.4	2208.5	452.6	0.6	5.8	2190.2	202.7	0.4	2.3	2182.8	133.5	0.5	1.2	6
7	2223.4	768.9	0.7	6.4	2207.9	442.5	0.6	5.8	2189.9	199.6	0.4	2.3	2182.6	131.9	0.5	1.2	7
8	2222.9	756.5	0.6	6.4	2207.3	432.6	0.6	5.7	2189.5	195.4	0.4	2.3	2182.5	131.0	0.5	1.2	8
9	2222.4	744.3	0.6	6.4	2206.7	422.9	0.6	5.7	2189.1	191.3	0.4	2.3	2182.3	129.4	0.5	1.2	9
10	2221.9	732.1	0.6	6.4	2206.1	413.3	0.6	5.6	2188.8	188.3	0.4	2.2	2182.1	127.8	0.5	1.2	10
11	2221.4	720.1	0.6	6.4	2205.4	402.3	0.6	5.5	2188.4	184.2	0.4	2.2	2182.0	127.0	0.5	1.2	11
12	2220.9	708.2	0.6	6.4	2204.8	392.9	0.7	5.4	2188.1	181.2	0.4	2.1	2181.8	125.4	0.5	1.2	12
13	2220.4	696.5	0.6	6.3	2204.2	383.8	0.7	5.4	2187.7	177.3	0.4	2.1	2181.7	124.7	0.5	1.2	13
14	2219.9	684.8	0.6	6.3	2203.6	374.7	0.7	5.3	2187.3	173.4	0.4	2.0	2181.5	123.1	0.5	1.2	14
15	2219.5	675.6	0.6	6.3	2202.9	364.3	0.7	5.3	2186.9	169.6	0.4	2.0	2181.4	122.3	0.5	1.2	15
16	2219.0	664.1	0.6	6.3	2202.3	355.5	0.7	5.2	2186.5	165.8	0.4	1.9	2181.2	120.8	0.5	1.2	16
17	2218.5	652.8	0.6	6.3	2201.7	346.8	0.7	5.2	2186.2	163.0	0.4	1.9	2181.0	119.2	0.5	1.2	17
18	2218.0	641.5	0.6	6.2	2201.0	336.7	0.7	5.1	2185.8	159.3	0.4	1.8	2180.9	118.5	0.5	1.2	18
19	2217.5	630.4	0.6	6.2	2200.3	326.8	0.9	5.7	2185.5	156.6	0.4	1.6	2180.7	117.0	0.5	1.1	19
20	2217.1	621.5	0.6	6.1	2199.6	317.1	0.9	6.0	2185.4	155.7	0.3	1.1	2180.6	116.2	0.5	1.1	20
21	2216.6	610.6	0.6	6.1	2198.8	306.1	1.0	5.9	2185.2	153.9	0.3	1.1	2180.4	114.8	0.5	1.1	21
22	2216.1	599.7	0.6	6.0	2198.1	296.7	1.0	6.4	2185.1	153.0	0.3	1.1	2180.2	113.3	0.5	1.1	22
23	2215.5	586.8	0.6	6.0	2197.2	284.9	1.2	7.1	2184.9	151.2	0.3	1.1	2180.0	111.8	0.6	1.1	23
24	2215.0	576.1	0.6	6.0	2196.3	273.4	1.2	7.0	2184.8	150.4	0.3	1.1	2179.8	110.4	0.6	1.1	24
25	2214.5	565.6	0.6	6.0	2195.4	262.2	1.3	6.9	2184.7	149.5	0.3	1.1	2179.7	109.6	0.6	1.1	25
26	2214.0	555.2	0.6	6.0	2194.5	251.3	1.3	6.8	2184.5	147.8	0.4	1.1	2179.5	108.2	0.6	1.1	26
27	2213.4	543.0	0.6	6.0	2193.8	243.0	0.8	5.0	2184.3	146.0	0.4	1.1	2179.3	106.8	0.6	1.1	27
28	2213.0	534.9	0.6	6.0	2193.3	237.1	0.8	3.5	2184.2	145.1	0.4	1.2	2179.2	106.0	0.6	1.1	28
29	2212.4	523.1	0.6	6.0	2193.0	233.6	0.8	2.9	2184.0	143.4	0.4	1.2	2179.0	104.6	0.6	1.1	29
30	2211.9	513.4	0.6	6.0	2192.6	229.1	0.5	2.4	2183.9	142.6	0.4	1.2	2178.8	103.2	0.6	1.1	30
31					2192.3	225.7	0.4	2.4	2183.7	140.9	0.4	1.2					31
TOTAL			18.7	186.4			23.6	168.6			11.8	54.6			15.8	34.8	
Inf. Ac. Ft.			37.1				46.8				23.4				31.3	116.26	
Outf. Ac. Ft.			36.97				33.44				108.3				69.0	165.33	
Maximum Mean Daily Inflow			0.7				1.3				0.4				0.6	1.19	
Minimum Mean Daily Inflow			0.6				0.4				0.3				0.5	0.3	
Storage Change		-332.6				-287.7				-84.8				-37.7		-470.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2232.6	feet	on 5/3 & 5/4/60	Storage	1021.	Acre Feet			
Min. W. S. Elev.	2178.8	feet	on 9/30/60	Storage	103.2	Acre Feet			
Max. Peak Inf.	23.8	C.F.S. from	2:00 A.M. on	1/12/60	to 3:00 A.M.	on	1/12/60		
Max. Peak Outf.	7.2	C.F.S. from	3:30 P.M. on	7/22/60	to 11:00 A.M.	on	7/23/60		
REMARKS	(INDICATES AVERAGE FOR PERIOD								

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
W. L. CROKE	Dam Tender	Gage Hts. copied	RAP GLW	
J.R. HYDE	Hydrographer	Storage applied	RAP GLW	
	Hydrographer	Inf. & Outf. comp.	RAP GLW	

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam

In ~~On~~ Big Tujunga Canyon for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 4123.0 Ac. Ft. at Spillway Elev. 2290. Ft. as of June, 19 58 Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1	2178.7	102.5	0.6	1.1	2176.9	90.3	0.4	0.7	2185.5	156.6	2.0	0.7	2191.6	217.9	1.6	0.7	1
2	2178.5	101.2	0.6	1.1	2176.9	90.3	0.7	0.7	2185.8	159.3	2.0	0.7	2191.8	220.1	1.6	0.7	2
3	2178.4	100.5	0.6	1.1	2177.0	90.9	1.0	0.7	2186.1	162.0	2.0	0.7	2192.0	222.3	1.6	0.7	3
4	2178.3	99.8	0.6	0.8	2177.0	90.9	0.7	0.7	2186.4	164.9	2.0	0.7	2192.1	223.4	1.6	0.7	4
5	2178.2	99.1	0.6	0.6	2178.0	97.7	4.1	0.7	2186.6	166.7	2.0	0.7	2192.2	224.6	1.6	0.7	5
6	2178.2	99.1	0.5	0.6	2181.6	123.9	13.9	0.7	2186.8	168.6	1.7	0.7	2192.4	226.8	1.6	0.7	6
7	2178.1	98.4	0.5	0.6	2182.2	128.6	3.1	0.7	2187.0	170.5	1.7	0.7	2192.6	229.1	1.6	0.7	7
8	2178.1	98.4	0.5	0.6	2182.3	129.4	1.1	0.7	2187.2	172.4	1.7	0.7	2192.7	230.2	1.6	0.7	8
9	2178.1	98.4	0.5	0.6	2182.3	129.4	0.9	0.7	2187.4	174.4	1.7	0.7	2192.9	232.5	1.6	0.7	9
10	2178.1	98.4	0.5	0.6	2182.3	129.4	0.8	0.7	2187.6	176.3	1.7	0.7	2193.0	233.6	1.6	0.7	10
11	2178.0	97.7	0.5	0.6	2182.4	130.2	0.8	0.7	2187.8	178.3	1.7	0.7	2193.2	235.9	1.6	0.7	11
12	2178.0	97.7	0.5	0.6	2182.5	131.0	1.1	0.7	2188.0	180.2	1.7	0.7	2193.4	238.3	1.6	0.7	12
13	2177.9	97.0	0.5	0.7	2182.7	132.7	1.5	0.6	2188.2	182.2	1.7	0.7	2193.5	239.4	1.6	0.7	13
14	2177.9	97.0	0.5	0.7	2182.8	133.5	1.1	0.6	2188.4	184.2	1.7	0.7	2193.6	240.6	1.6	0.7	14
15	2177.8	96.3	0.5	0.7	2182.9	134.3	1.1	0.6	2188.6	186.3	1.7	0.7	2193.8	243.0	1.6	0.7	15
16	2177.8	96.3	0.5	0.7	2183.0	135.1	1.1	0.6	2188.8	188.3	1.7	0.7	2194.0	245.3	1.6	0.7	16
17	2177.7	95.7	0.5	0.7	2183.1	135.9	1.1	0.6	2189.0	190.3	1.7	0.7	2194.1	246.5	1.6	0.8	17
18	2177.7	95.7	0.5	0.7	2183.2	136.8	1.1	0.6	2189.2	192.4	1.7	0.7	2194.2	247.7	1.6	0.8	18
19	2177.6	95.0	0.5	0.7	2183.2	136.8	1.1	0.6	2189.4	194.4	1.6	0.7	2194.4	250.1	1.6	0.8	19
20	2177.5	94.3	0.5	0.7	2183.3	137.6	1.1	0.6	2189.6	196.5	1.6	0.7	2194.5	251.3	1.6	0.8	20
21	2177.5	94.3	0.5	0.7	2183.4	138.4	1.0	0.7	2189.7	197.5	1.6	0.7	2194.7	253.7	1.6	0.8	21
22	2177.4	93.6	0.5	0.7	2183.5	139.2	1.0	0.7	2189.9	199.6	1.6	0.7	2194.8	254.9	1.6	0.8	22
23	2177.4	93.6	0.5	0.7	2183.6	140.1	1.0	0.7	2190.1	201.7	1.6	0.7	2194.9	256.1	1.7	0.8	23
24	2177.3	92.9	0.5	0.7	2183.8	141.7	1.0	0.7	2190.2	202.7	1.6	0.7	2195.0	257.3	1.7	0.8	24
25	2177.3	92.9	0.5	0.7	2183.9	142.6	1.0	0.7	2190.4	204.9	1.6	0.7	2195.3	261.0	2.6	0.8	25
26	2177.2	92.3	0.5	0.7	2184.2	145.1	1.9	0.7	2190.6	207.0	1.6	0.7	2196.2	272.1	6.4	0.8	26
27	2177.2	92.3	0.5	0.7	2184.6	148.6	2.5	0.7	2190.8	209.2	1.6	0.7	2197.3	286.2	7.9	0.8	27
28	2177.1	91.6	0.5	0.7	2184.8	150.4	1.6	0.7	2190.9	210.2	1.6	0.7	2197.8	292.8	4.2	0.8	28
29	2177.1	91.6	0.5	0.7	2185.0	152.1	1.6	0.7	2191.1	212.4	1.6	0.7	2198.2	298.1	3.5	0.8	29
30	2177.0	90.9	0.5	0.7	2185.2	153.9	1.6	0.7	2191.3	214.6	1.6	0.7	2198.6	303.4	3.4	0.8	30
31	2177.0	90.9	0.5	0.7					2191.4	215.7	1.6	0.7	2198.9	307.5	2.6	0.5	31
TOTAL			16.0	22.2			52.0	20.2			52.9	21.7			69.2	22.9	
Inf. Ac. Ft.			31.7				103.1				104.9				137.3	377.0	
Outf. Ac. Ft.			44.0				40.1				43.0				45.4	172.5	
Maximum Mean Daily Inflow			0.6				13.9				2.0				7.9	13.9	
Minimum Mean Daily Inflow			0.5				0.4				1.6				1.6	0.4	
Storage Change		-12.3				+63.0				+61.8				+91.8		+204.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2216.7	feet	on 5/14 & 15/61	Storage	612.8	Acre Feet			
Min. W. S. Elev.	2176.8	feet	on 11/3/60	Storage	89.6	Acre Feet			
Max. Peak Inf.	34.6	C.F.S. from	7:30 A.M. on	11/6/60	to 8:00 A.M.	on	11/6/60		
Max. Peak Outf.	4.2	C.F.S. from	4:00 P.M. on	5/26/61	to 11:00 A.M.	on	5/29/61		
REMARKS	(INDICATES AVERAGE FOR PERIOD								

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
W.L. CROKE	Dam Tender	Gage Hts. copied	RAP GLW	
J.R. HYDE	Hydrographer	Storage applied	RAP GLW	
	Hydrographer	Inf. & Outf. comp.	RAP GLW	

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam

In Big Tujunga Canyon for the Year Ending September 30, 1961

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 4123.0 Ac. Ft. at Spillway Elev. 2290. Ft. as of June 1958 Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	2199.2	311.6	2.4	0	2206.5	419.7	1.6	0	2212.7	529.0	1.5	0	2215.9	595.4	0.8	0	1
2	2199.6	317.1	2.4	0	2206.7	422.9	1.6	0	2212.8	531.0	1.5	0	2215.9	595.4	0.7	0	2
3	2199.9	321.2	2.4	0	2206.9	426.1	1.6	0	2212.9	532.9	1.4	0	2216.0	597.5	0.7	0	3
4	2200.3	326.8	2.4	0	2207.1	429.3	1.7	0	2213.1	536.9	1.4	0	2216.1	599.7	0.7	0	4
5	2200.6	331.1	2.3	0	2207.3	432.6	1.7	0	2213.2	539.0	1.4	0	2216.1	599.7	0.7	0	5
6	2200.9	335.3	2.1	0	2207.5	435.9	1.7	0	2213.3	541.0	1.4	0	2216.2	601.9	0.7	0	6
7	2201.2	339.6	2.1	0	2207.7	439.2	1.7	0	2213.5	545.0	1.4	0	2216.3	604.0	0.7	0	7
8	2201.5	343.9	2.1	0	2207.9	442.5	1.8	0	2213.6	547.1	1.4	0	2216.4	606.2	0.7	0	8
9	2201.8	348.2	2.0	0	2208.1	445.8	1.8	0	2213.7	549.1	1.4	0	2216.4	606.2	0.7	0	9
10	2202.0	351.1	2.0	0	2208.3	449.2	1.8	0	2213.9	553.2	1.4	0	2216.5	608.4	0.7	0	10
11	2202.3	355.5	2.0	0	2208.5	452.6	1.8	0	2214.0	555.2	1.0	0	2216.6	610.6	0.7	0	11
12	2202.6	359.9	2.0	0	2208.7	456.0	1.8	0	2214.1	557.3	1.0	0	2216.6	610.6	0.7	0	12
13	2202.9	364.3	2.0	0	2208.9	459.4	1.8	0	2214.2	559.4	1.0	0	2216.6	610.6	0.7	0	13
14	2203.1	367.3	2.0	0	2209.1	462.8	1.8	0	2214.3	561.5	1.0	0	2216.7	612.8	0.7	0	14
15	2203.4	371.8	2.0	0	2209.4	466.1	1.8	0	2214.4	563.6	1.0	0	2216.7	612.8	0.7	0.7	15
16	2203.6	374.7	2.0	0	2209.6	471.6	1.9	0	2214.5	565.6	1.0	0	2216.6	610.6	0.7	1.1	16
17	2203.9	379.2	1.9	0	2209.8	475.1	1.9	0	2214.6	567.7	0.9	0	2216.6	610.6	0.7	1.1	17
18	2204.1	382.2	1.8	0	2210.0	478.6	1.9	0	2214.6	567.7	0.9	0	2216.6	610.6	0.7	1.1	18
19	2204.4	386.8	1.8	0	2210.2	482.2	1.9	0	2214.7	569.8	0.9	0	2216.6	610.6	0.7	1.1	19
20	2204.6	389.9	1.8	0	2210.4	485.8	1.9	0	2214.8	571.9	0.9	0	2216.6	610.6	0.6	1.1	20
21	2204.8	392.9	1.6	0	2210.6	489.4	1.9	0	2214.9	574.0	0.9	0	2216.6	610.6	0.6	1.1	21
22	2205.0	396.0	1.6	0	2210.8	493.0	1.9	0	2215.0	576.1	1.0	0	2216.6	610.6	0.6	1.1	22
23	2205.2	399.1	1.6	0	2211.0	496.6	1.9	0	2215.2	580.4	2.2	0	2216.4	606.2	0.6	1.5	23
24	2205.4	402.3	1.6	0	2211.2	500.3	1.9	0	2215.3	582.5	1.0	0	2216.3	604.0	0.6	1.9	24
25	2205.6	405.4	1.6	0	2211.4	504.1	1.9	0	2215.4	584.7	0.9	0	2216.1	599.7	0.6	1.9	25
26	2205.8	408.6	1.6	0	2211.6	507.8	1.8	0	2215.5	586.8	0.9	0	2215.9	595.4	0.8	2.7	26
27	2206.0	411.7	1.5	0	2211.8	511.6	1.8	0	2215.6	588.9	0.9	0	2215.6	588.9	0.8	4.2	27
28	2206.2	414.9	1.5	0	2212.0	515.3	1.8	0	2215.7	591.1	0.9	0	2215.3	582.5	0.8	4.2	28
29					2212.2	519.2	1.8	0	2215.7	591.1	0.9	0	2215.0	576.1	0.8	3.1	29
30					2212.3	521.2	1.7	0	2215.8	593.2	0.9	0	2214.9	574.0	0.7	2.2	30
31					2212.5	525.1	1.7	0					2214.8	571.9	0.7	2.2	31
TOTAL			54.1	0			55.6	0			34.3	0			21.6	32.3	
Inf. Ac. Ft.			1073				1103				680				428	705.4	
Outf. Ac. Ft.			0				0				0				64.1	236.6	
Maximum Mean Daily Inflow			2.4				1.9				2.2				0.8	13.9	
Minimum Mean Daily Inflow			1.5				1.6				0.9				0.6	0.4	
Storage Change		+1074				+1102				+681				-213		+4687	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2216.7	feet	on	5/14 & 15/61	Storage	612.8	Acre Feet	
Min. W. S. Elev.	2176.8	feet	on	11/3/60	Storage	89.6	Acre Feet	
Max. Peak Inf.	34.6	C.F.S. from	7:30 A.M.	on	11/6/60	to	8:00 A.M.	on 11/6/60
Max. Peak Outf.	4.2	C.F.S. from	4:00 P.M.	on	5/26/61	to	11:00 A.M.	on 5/29/61

REMARKS (INDICATES AVERAGE FOR PERIOD

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
W.L. CROKE	Dam Tender	Gage Hts. copied	RAP	HRW GLW
J.R. HYDE	Hydrographer	Storage applied	RAP	HRW GLW
	Hydrographer	Inf. & Outf. comp.	RAP	GLW

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG TUJUNGA Dam

In Big Tujunga Canyon for the Year Ending September 30, 1961

Continuous Water Stage Recorder Au

Drainage Area 82.3 Square Miles. Capacity of Reservoir 4123.0 Ac. Ft. at Spillway Elev. 2290. Ft. as of June 1958 Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	2214.6	567.7	0.6	2.2	2210.1	480.4	0.5	2.1	2204.2	383.8	0.5	2.0	2198.0	295.4	0.6	1.9	1
2	2214.5	565.6	0.6	1.8	2209.9	476.8	0.5	2.1	2204.0	380.7	0.5	2.0	2197.8	292.8	0.7	1.9	2
3	2214.5	565.6	0.6	1.0	2209.7	473.4	0.5	2.0	2203.9	379.2	0.5	2.0	2197.6	290.2	0.7	1.9	3
4	2214.5	565.6	0.6	1.0	2209.5	469.8	0.5	2.0	2203.7	376.2	0.5	2.0	2197.4	287.5	0.7	2.0	4
5	2214.4	563.6	0.6	1.6	2209.4	468.1	0.5	2.0	2203.5	373.2	0.5	2.0	2197.2	284.9	0.7	2.0	5
6	2214.3	561.5	0.6	2.2	2209.2	464.6	0.5	2.0	2203.4	371.8	0.5	2.0	2196.9	281.0	0.7	2.0	6
7	2214.2	559.4	0.6	2.2	2209.0	461.1	0.4	2.0	2203.2	368.8	0.5	2.1	2196.8	278.8	0.7	2.0	7
8	2214.0	555.2	0.6	2.2	2208.8	457.7	0.4	2.0	2203.0	365.8	0.5	2.1	2196.6	277.2	0.7	2.0	8
9	2213.8	551.1	0.6	2.2	2208.6	454.3	0.4	2.0	2202.8	362.9	0.5	2.1	2196.4	274.7	0.7	2.0	9
10	2213.7	549.1	0.5	2.2	2208.4	450.9	0.4	2.0	2202.6	359.9	0.5	2.1	2196.1	270.9	0.7	2.0	10
11	2213.5	545.0	0.5	2.2	2208.2	447.5	0.4	2.0	2202.4	357.0	0.5	2.1	2195.9	268.4	0.7	2.1	11
12	2213.4	543.0	0.5	2.1	2208.0	444.1	0.4	2.0	2202.2	354.0	0.5	2.1	2195.7	265.9	0.7	2.1	12
13	2213.2	539.0	0.5	2.1	2207.9	442.5	0.4	2.0	2202.0	351.1	0.5	2.0	2195.5	263.4	0.7	2.1	13
14	2213.1	536.9	0.5	2.1	2207.7	439.2	0.4	2.0	2201.8	348.2	0.5	2.0	2195.3	261.0	0.7	2.1	14
15	2212.9	532.9	0.5	2.1	2207.5	435.9	0.4	2.0	2201.6	345.3	0.5	2.0	2195.1	258.5	0.7	2.1	15
16	2212.8	531.0	0.5	2.1	2207.3	432.6	0.4	2.0	2201.4	342.5	0.5	2.0	2194.9	256.1	0.7	2.0	16
17	2212.6	527.1	0.5	2.1	2207.1	429.3	0.4	2.0	2201.1	338.1	0.5	2.0	2194.7	253.7	0.7	2.0	17
18	2212.4	523.1	0.5	2.0	2206.9	426.1	0.4	2.0	2200.9	335.3	0.5	2.0	2194.5	251.3	0.7	2.0	18
19	2212.2	519.2	0.5	2.0	2206.7	422.9	0.4	2.0	2200.7	332.5	0.6	2.0	2194.3	248.9	0.7	2.0	19
20	2212.0	515.3	0.5	2.0	2206.5	419.7	0.4	2.0	2200.6	331.1	0.6	2.0	2194.1	246.5	0.7	1.9	20
21	2211.9	513.4	0.5	2.0	2206.3	416.5	0.4	2.0	2200.4	328.2	0.6	1.9	2193.9	244.1	0.7	1.9	21
22	2211.7	509.7	0.5	2.0	2206.2	414.9	0.4	2.0	2200.2	325.4	0.6	1.9	2193.7	241.8	0.7	1.9	22
23	2211.6	507.8	0.5	2.0	2206.0	411.7	0.4	2.0	2200.0	322.6	0.6	1.9	2193.5	239.4	0.7	1.9	23
24	2211.4	504.1	0.5	2.0	2205.8	408.6	0.4	2.0	2199.8	319.8	0.6	1.9	2193.3	237.1	0.7	1.9	24
25	2211.2	500.3	0.5	2.1	2205.6	405.4	0.4	2.0	2199.5	315.7	0.6	1.9	2193.0	233.6	0.7	1.9	25
26	2211.0	496.6	0.5	2.1	2205.4	402.3	0.4	2.0	2199.3	312.9	0.6	1.9	2192.8	231.3	0.7	1.9	26
27	2210.9	494.8	0.5	2.1	2205.2	399.1	0.4	2.0	2199.1	310.2	0.6	1.9	2192.6	229.1	0.7	1.9	27
28	2210.7	491.2	0.5	2.1	2205.0	396.0	0.4	2.0	2198.9	307.5	0.6	1.9	2192.5	228.0	0.7	1.9	28
29	2210.5	487.6	0.5	2.1	2204.8	392.9	0.4	2.0	2198.7	304.8	0.6	1.9	2192.3	225.7	0.7	1.9	29
30	2210.3	484.4	0.5	2.1	2204.6	389.9	0.4	2.0	2198.5	302.1	0.6	1.9	2192.0	222.3	0.7	1.9	30
31					2204.4	386.8	0.4	2.0	2198.2	298.1	0.6	1.9					31
TOTAL			15.9	60.0			13.0	62.2			16.8	61.5			20.9	59.1	
Inf. Ac. Ft.			315				258				333				415	837.5	
Outf. Ac. Ft.			1190				1234				1220				1172	1182	
Maximum Mean Daily Inflow			0.6				0.5				0.6				0.7	1.9	
Minimum Mean Daily Inflow			0.5				0.4				0.5				0.6	0.4	
Storage Change		-875				-976				-887				-758		+1191	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2216.7	feet	on	5/14 & 15/61	Storage	612.8	Acre Feet	
Min. W. S. Elev.	2176.8	feet	on	11/3/60	Storage	89.6	Acre Feet	
Max. Peak Inf.	34.6	C.F.S. from	7:30 A.M.	on	11/6/60	to	8:00 A.M.	on 11/6/60
Max. Peak Outf.	4.2	C.F.S. from	4:00 P.M.	on	5/26/61	to	11:00 A.M.	on 5/29/61

REMARKS (INDICATES AVERAGE FOR PERIOD

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
W.L. CROKE	Dam Tender	Gage Hts. copied	RAP	GLW
J.R. HYDE	Hydrographer	Storage applied	RAP	GLW
	Hydrographer	Inf. & Outf. comp.	RAP	GLW

76D 138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam

In Arroyo Seco for the Year Ending September 30, 19 60

On

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2838.6 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of December, 19 59

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1			0	0			0	0			0	0	1012.1	382	0	0	1
2			0	0			0	0			0	0	1011.9	367	0	0	2
3			0	0			0	0			0	0	1011.8	360	0	0	3
4			0	0			0	0			0	0	1011.7	353	0	0	4
5			0	0			0	0			0	0	1011.6	346	0	0	5
6			0	0			0	0			0	0	1011.4	331	0	0	6
7			0	0			0	0			0	0	1011.3	324	0	0	7
8			0	0			0	0			0	0	1011.2	317	0	0	8
9			0	0			0	0			0	0	1011.1	310	0	0	9
10			0	0			0	0			0	0	1016.9	948	332	0	10
11			0	0			0	0			0	0	1020.0	1589	338	0	11
12			0	0			0	0			0	0	1021.8	2090	271	0	12
13			0	0			0	0			0	0	1021.9	2120	33	0	13
14			0	0			0	0			0	0	1022.2	2214	66	0	14
15			0	0			0	0			0	0	1022.5	2312	69	0	15
16			0	0			0	0			0	0	1022.6	2344	35	0	16
17			0	0			0	0			0	0	1022.6	2344	17	0	17
18			0	0			0	0			0	0	1022.6	2344	17	0	18
19			0	0			0	0			0	0	1022.6	2344	17	0	19
20			0	0			0	0			0	0	1022.6	2344	17	0	20
21			0	0			0	0			0	0	1022.6	2344	17	0	21
22			0	0			0	0			0	0	1022.6	2344	17	0	22
23			0	0			0	0			0	0	1022.5	2312	17	0	23
24			0	0			0	0	1013.6	516	26.0	0	1022.5	2312	17	0	24
25			0	0			0	0	1013.3	487	0	0	1023.0	2474	101	0	25
26			0	0			0	0	1013.1	467	0	0	1023.0	2474	20	0	26
27			0	0			0	0	1012.9	449	0	0	1023.1	2509	36	0	27
28			0	0			0	0	1012.7	432	0	0	1023.1	2509	21	01	28
29			0	0			0	0	1012.5	416	0	0	1023.1	2509	21	01	29
30			0	0			0	0	1012.4	407	0	0	1023.1	2509	21	01	30
31			0	0					1012.2	391	0	0	1023.1	2509	21	01	31
TOTAL			0	0			0	0			260	0			1523	04	
Inf. Ac. Ft.			0				0				516				3021	3537	
Outf. Ac. Ft.			0				0				0 +	(125)			08+8951	08+(1020)	
Maximum Mean Daily Inflow			0				0				260				338	338	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				+ 391				+ 2118		+ 2509	

SMALL POOL

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1027.0	feet	on	VARIOUS DAYS	Storage	404.4	Acre Feet		
Min. W. S. Elev.	986. ±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		
Max. Peak Inf.	329.	C.F.S. from	11:15 P.M.	on	1/11/60	to	11:30 P.M.	on	1/11/60
Max. Peak Outf.	2.3	C.F.S. from	8:00 A.M.	on	8/3/60	to	9:30 A.M.	on	8/3/60

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
K.M. YORK	Dam Tender	Gage Hts. copied	RAP	TS
J. HOLLERON	Hydrographer	Storage applied	RAP	TS
	Hydrographer	Inf. & Outf. comp.	RAP	TS

REMARKS ( ) INDICATES PERCOLATION AND OTHER LOSSES
{ INDICATES AVERAGE FOR PERIOD

76D 138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam

Ja- Arroyo Seco for the Year Ending September 30, 19 60

On

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2838.6 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of December, 19 59

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	1024.9	316.8	35.7	0.3	1027.0	404.4	10.1	0.5	1025.7	349.3	0.8	0.3	1025.7	349.3	0.8	0.4	1
2	1025.3	332.9	10.6	0.3	1027.0	404.4	3.6	0.5	1025.6	345.2	0.8	0.3	1025.6	345.2	2.9	0.4	2
3	1025.3	332.9	2.5	0.3	1027.0	404.4	3.3	0.5	1025.5	341.1	0.8	0.3	1025.6	345.2	2.9	0.4	3
4	1025.3	332.9	2.5	0.3	1027.0	404.4	3.3	0.5	1025.4	337.0	0.8	0.3	1025.5	341.1	0.8	0.4	4
5	1025.3	332.9	2.5	0.3	1027.0	404.4	3.3	0.5	1025.3	332.9	0.8	0.3	1025.4	337.0	0.8	0.4	5
6	1025.3	332.9	2.5	0.3	1027.0	404.4	3.3	0.4	1025.1	324.7	0.8	0.3	1025.3	332.9	0.9	0.4	6
7	1025.3	332.9	2.5	0.3	1026.9	400.1	3.3	0.4	1025.0	320.6	0.8	0.2	1025.2	328.8	0.8	0.4	7
8	1026.5	383.0	27.9	0.3	1026.9	400.1	3.2	0.4	1024.9	316.8	0.9	0.2	1025.1	324.7	0.8	0.4	8
9	1026.6	387.3	4.9	0.3	1026.8	395.8	1.7	0.3	1024.8	313.0	0.9	0.2	1025.0	320.6	0.9	0.4	9
10	1026.7	391.6	4.8	0.3	1026.8	395.8	1.7	0.3	1024.7	309.2	0.9	0.2	1024.9	316.8	0.9	0.4	10
11	1026.6	387.3	2.1	0.3	1026.7	391.6	1.7	0.3	1024.6	305.4	0.9	0.2	1024.8	313.0	1.0	0.4	11
12	1026.6	387.3	2.1	0.3	1026.7	391.6	1.7	0.3	1024.5	301.6	0.9	0.2	1024.6	305.4	1.0	0.4	12
13	1026.6	387.3	2.1	0.3	1026.6	387.3	1.7	0.3	1024.4	297.9	0.9	0.2	1024.5	301.6	1.0	0.4	13
14	1026.5	383.0	2.1	0.3	1026.5	383.0	1.7	0.3	1024.3	294.1	0.8	0.2	1024.3	294.1	1.0	0.4	14
15	1026.5	383.0	2.1	0.3	1026.5	383.0	1.6	0.3	1024.1	286.5	0.8	0.2	1024.2	290.3	1.0	0.4	15
16	1026.4	378.7	2.1	0.3	1026.4	378.7	1.6	0.3	1024.0	282.7	0.7	0.2	1024.1	286.5	1.0	0.4	16
17	1026.4	378.7	2.1	0.3	1026.3	374.4	1.1	0.2	1023.9	279.2	0.6	0.2	1024.0	282.7	1.0	0.4	17
18	1026.3	374.4	2.1	0.3	1026.2	370.2	1.1	0.2	1023.8	275.6	0.6	0.2	1023.8	275.6	1.0	0.4	18
19	1026.3	374.4	2.1	0.3	1026.1	365.9	1.1	0.2	1023.6	268.6	0.5	0.2	1023.7	272.1	1.0	0.4	19
20	1026.2	370.2	2.1	0.3	1026.0	361.6	1.1	0.2	1023.5	265.0	0.5	0.2	1023.6	268.6	1.0	0.4	20
21	1026.2	370.2	2.1	0.3	1026.0	361.6	1.1	0.2	1023.4	261.5	0.5	0.2	1023.5	265.0	1.0	0.4	21
22	1026.2	370.2	2.1	0.3	1025.9	357.5	1.1	0.2	1023.4	261.5	0.5	0.2	1023.3	258.0	0.9	0.3	22
23	1026.1	365.9	2.1	0.3	1025.8	353.4	1.1	0.2	1023.3	258.0	0.5	0.3	1023.2	254.5	0.9	0.3	23
24	1026.1	365.9	2.1	0.4	1025.7	349.3	1.1	0.2	1023.2	254.5	0.5	0.3	1023.1	250.9	0.9	0.3	24
25	1026.0	361.6	2.0	0.4	1025.7	349.3	1.0	0.2	1023.1	250.9	0.5	0.3	1023.0	247.4	0.9	0.3	25
26	1026.0	361.6	2.0	0.4	1025.6	345.2	1.0	0.2	1023.3	258.0	6.0	0.3	1022.9	244.2	0.8	0.3	26
27	1026.0	361.6	2.0	0.4	1025.8	353.4	6.9	0.3	1025.3	332.9	40.2	0.3	1022.7	237.6	0.8	0.3	27
28	1026.1	365.9	5.6	0.4	1026.0	361.6	7.0	0.3	1025.8	353.4	13.2	0.3	1022.6	234.4	0.8	0.3	28
29	1026.7	391.6	16.3	0.4	1025.9	357.5	1.4	0.3	1025.9	357.5	5.0	0.3	1022.4	227.9	0.7	0.3	29
30					1025.8	353.4	1.4	0.3	1025.8	353.4	0.8	0.3	1022.3	224.6	0.7	0.3	30
31					1025.8	353.4	1.4	0.3					1022.2	221.4	0.6	0.3	31
TOTAL			153.7	9.3			75.7	9.6			83.2	7.4			29.5	11.4	
Inf. Ac. Ft.			304.9				1501				1650				585	10322	
Outf. Ac. Ft.			184	+(1458)			190	+(1694)			147	+(1503)			226+(1678)	755+(7353)	
Maximum Mean Daily Inflow			35.7				101				402				29	402	
Minimum Mean Daily Inflow			2.0				1.0				0.5				0.6	0	
Storage Change		+140.7				- 382				0				- 1320		+ 2214	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1027.0	feet	on	VARIOUS DAYS	Storage	404.4	Acre Feet		
Min. W. S. Elev.	986. ±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		
Max. Peak Inf.	329.	C.F.S. from	11:15 P.M.	on	1/11/60	to	11:30 P.M.	on	1/11/60
Max. Peak Outf.	2.3	C.F.S. from	8:00 A.M.	on	8/3/60	to	9:30 A.M.	on	8/3/60

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
K.M. YORK	Dam Tender	Gage Hts. copied	RAP HRW	TS
J. HOLLERON	Hydrographer	Storage applied	RAP HRW	TS
D.W. BOWMAN	Hydrographer	Inf. & Outf. comp.	RAP	TS

REMARKS ( ) INDICATES PERCOLATION AND OTHER LOSSES
{ INDICATES AVERAGE FOR PERIOD

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of Devil's Gate Dam

In/On Arroyo Seco for the Year Ending September 30, 1960

Continuous Water Stage Recorder Au

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2838.6 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of December 1959 Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	1022.1	218.2	0.6	0.3	1018.4	122.9	0	0	1015.9	79.4	0	0			0	0	1
2	1021.9	212.0	0.6	0.3	1018.3	120.8	0	0	1015.7	76.6	0	0.4			0	0	2
3	1021.8	209.0	0.6	0.3	1018.2	118.7	0	0	1015.5	74.0	0	1.0			0	0	3
4	1021.7	206.0	0.6	0.3	1018.1	116.7	0	0	1015.3	71.2	0	1.1			0	0	4
5	1021.6	203.1	0.6	0.3	1018.0	114.6	0	0	1015.0	67.2	0	1.1			0	0	5
6	1021.4	197.2	0.7	0.3	1017.9	112.8	0	0	1014.8	64.9	0	1.1			0	0	6
7	1021.3	194.2	0.7	0.3	1017.8	111.0	0	0	1014.6	62.6	0	1.1			0	0	7
8	1021.2	191.3	0.7	0.3	1017.7	109.1	0	0	1014.3	59.1	0	1.1			0	0	8
9	1021.1	188.4	0.6	0.3	1017.6	107.3	0	0	1014.1	56.8	0	1.1			0	0	9
10	1021.0	185.4	0.6	0.2	1017.5	105.5	0	0	1013.9	54.6	0	1.1			0	0	10
11	1020.9	182.8	0.5	0.2	1017.5	105.5	0	0	1013.6	51.6	0	1.1			0	0	11
12	1020.7	177.4	0.4	0.2	1017.4	103.7	0	0	1013.4	49.7	0	1.1			0	0	12
13	1020.6	174.8	0.4	0.2	1017.3	101.9	0	0	1013.1	46.7	0	1.1			0	0	13
14	1020.5	172.2	0.3	0.2	1017.2	100.0	0	0	1012.8	44.0	0	1.0			0	0	14
15	1020.4	169.5	0.2	0.2	1017.1	98.2	0	0	1012.5	41.6	0	1.0			0	0	15
16	1020.2	164.2	0.2	0.2	1017.0	96.4	0	0	1012.2	39.1	0	1.0			0	0	16
17	1020.1	161.6	0.2	0.2	1016.9	94.8	0	0	1011.8	36.0	0	1.0			0	0	17
18	1020.0	158.9	0.2	0.2	1016.9	94.8	0	0	1011.4	33.1	0	1.0			0	0	18
19	1019.9	156.5	0.2	0.2	1016.8	93.3	0	0	1011.0	30.3	0	1.0			0	0	19
20	1019.8	154.2	0.2	0.1	1016.7	91.7	0	0	1010.5	27.3	0	1.0			0	0	20
21	1019.7	151.8	0.2	0.1	1016.6	90.1	0	0	1009.9	23.8	0	1.0			0	0	21
22	1019.5	147.1	0.1	0.1	1016.6	90.1	0	0	1008.4	16.8	0	1.5			0	0	22
23	1019.4	144.7	0.1	0.1	1016.5	88.6	0	0	1000.2	1.6	0	0.6			0	0	23
24	1019.3	142.4	0.1	0.1	1016.4	87.0	0	0	1001.1	1.6	0	0			0	0	24
25	1019.2	140.0	0.1	0.1	1016.3	85.4	0	0	1001.2	1.6	0	0			0	0	25
26	1019.1	137.7	0.1	0.1	1016.3	85.4	0	0	1001.3	1.6	0	0			0	0	26
27	1018.9	133.2	0.1	0.1	1016.2	83.8	0	0		0	0	0			0	0	27
28	1018.8	131.2	0.1	0.1	1016.1	82.3	0	0		0	0	0			0	0	28
29	1018.6	127.0	0	0.1	1016.1	82.3	0	0		0	0	0			0	0	29
30	1018.5	125.0	0	0	1016.0	80.7	0	0		0	0	0			0	0	30
31					1015.9	79.4	0	0		0	0	0					31
TOTAL			10.0	5.7			0	0			0	22.5			0	0	
Inf. Ac. Ft.			19.8				0				0				0	1052.0	
Outf. Ac. Ft.			11.3 +(104.9)				0 + (45.6)				44.6 + (34.6)				0	131.4+(920.6)	
Maximum Mean Daily Inflow			0.7				0				0				0	40.2	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-96.4				-45.6				-79.4				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1027.0	feet	on	VARIOUS DAYS	Storage	404.4	Acre Feet		
Min. W. S. Elev.	986. ±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		
Max. Peak Inf.	329.	C.F.S. from	11:15 P.M.	on	1/11/60	to	11:30 P.M.	on	1/11/60
Max. Peak Outf.	2.3	C.F.S. from	8:00 A.M.	on	8/3/60	to	9:30 A.M.	on	8/3/60

REMARKS ( ) INDICATES PERCOLATION AND OTHER LOSSES

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
K.M. YORK	Dam Tender	Gage Hts. copied	RAP	GLW TS
D.W. BOWMAN	Hydrographer	Storage applied	RAP	GLW
	Hydrographer	Inf. & Outf. comp.	RAP	GLW

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam

In/On Arroyo Seco for the Year Ending September 30, 1961

Continuous Water Stage Recorder Au

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2838.6 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of December 1959 Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1			0	0		0	0	0	1027.3	418.2	1.2	0.2	1025.9	357.5	0.6	0.3	1
2			0	0		0	0	0	1027.3	418.2	1.1	0.2	1025.8	353.4	0.6	0.3	2
3			0	0	1013.6	51.6	26.7	0	1027.3	418.2	1.0	0.2	1025.8	353.4	0.6	0.3	3
4			0	0	1013.5	50.6	1.0	0	1027.2	413.6	1.0	0.2	1025.7	349.3	0.6	0.3	4
5			0	0	1021.6	203.1	78.9	0	1027.2	413.6	0.9	0.2	1025.7	349.3	0.6	0.3	5
6			0	0	1028.1	455.4	131.1	0	1027.1	409.0	0.8	0.2	1025.6	345.2	0.6	0.3	6
7			0	0	1028.1	455.4	4.0	0	1027.1	409.0	0.8	0.2	1025.6	345.2	0.6	0.3	7
8			0	0	1028.1	455.4	4.0	0	1027.0	404.4	0.8	0.2	1025.5	341.1	0.6	0.3	8
9			0	0	1028.0	450.5	2.8	0	1027.0	404.4	0.8	0.2	1025.5	341.1	0.6	0.3	9
10			0	0	1028.0	450.5	2.2	0	1026.9	400.1	0.9	0.2	1025.4	337.0	0.6	0.3	10
11			0	0	1027.9	445.9	1.6	0	1026.9	400.1	0.9	0.3	1025.4	337.0	0.7	0.3	11
12			0	0	1029.0	499.5	31.6	0	1026.8	395.8	0.9	0.3	1025.4	337.0	0.7	0.3	12
13			0	0	1029.1	504.7	7.3	0	1026.8	395.8	0.9	0.3	1025.3	332.9	0.7	0.3	13
14			0	0	1029.0	499.5	2.5	0	1026.7	391.6	1.0	0.3	1025.3	332.9	0.7	0.3	14
15			0	0	1029.0	499.5	2.2	0	1026.7	391.6	1.0	0.3	1025.2	328.8	0.7	0.3	15
16		STORAGE	0	0	1028.9	494.6	2.0	0	1026.7	391.6	1.0	0.2	1025.2	328.8	0.7	0.3	16
17			0	0	1028.8	489.7	1.9	0	1026.6	387.3	1.0	0.2	1025.1	324.7	0.6	0.3	17
18			0	0	1028.7	484.8	1.7	0	1026.6	387.3	1.0	0.2	1025.1	324.7	0.6	0.3	18
19		NO	0	0	1028.7	484.8	1.6	0	1026.5	383.0	1.0	0.2	1025.0	320.6	0.6	0.3	19
20			0	0	1028.6	479.9	1.4	0	1026.5	383.0	1.0	0.2	1025.0	320.6	0.6	0.3	20
21			0	0	1028.6	479.9	1.3	0	1026.4	378.7	1.0	0.2	1025.0	320.6	0.7	0.2	21
22			0	0	1028.5	475.0	1.1	0	1026.4	378.7	1.0	0.2	1024.9	316.8	0.7	0.2	22
23			0	0	1028.4	470.1	1.0	0	1026.3	374.4	0.9	0.2	1024.9	316.8	0.8	0.2	23
24			0	0	1028.4	470.1	0.9	0	1026.3	374.4	0.8	0.2	1024.8	313.0	0.8	0.2	24
25			0	0	1026.3	374.4	0.8	47.0	1026.2	370.2	0.8	0.3	1024.8	313.0	0.9	0.2	25
26			0	0	1027.5	427.4	30.5	0.2	1026.2	370.2	0.7	0.3	1028.6	479.9	86.9	0.2	26
27			0	0	1027.4	422.8	1.4	0.2	1026.1	365.9	0.7	0.3	1028.6	479.9	4.0	0.2	27
28			0	0	1027.4	422.8	1.4	0.2	1026.1	365.9	0.6	0.3	1025.5	341.1	2.2	70.4	28
29			0	0	1027.3	418.2	1.3	0.2	1026.0	361.6	0.6	0.3	1025.5	341.1	2.0	0.3	29
30			0	0	1027.3	418.2	1.3	0.2	1026.0	361.6	0.6	0.3	1025.5	341.1	1.7	0.3	30
31			0	0					1025.9	357.5	0.6	0.3	1025.4	337.0	1.5	0.3	31
TOTAL			0	0			345.5	48.0			27.3	7.4			114.8	78.7	
Inf. Ac. Ft.			0				685.3				54.1				227.7	967.1	
Outf. Ac. Ft.			0				952 +172.0				14.7 + 100.2				156.1 +920.0	266.0+(364.2)	
Maximum Mean Daily Inflow			0				131.1				1.2				86.9	131.1	
Minimum Mean Daily Inflow			0				0				0.6				0.6	0	
Storage Change		0				+418.2				-60.7				-20.5		+337.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1029.1	feet	on	11/13/60	Storage	504.7	Acre Feet		
Min. W. S. Elev.	986. ±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		
Max. Peak Inf.	1260.	C.F.S. from	5:00 A.M.	on	11/6/60	to	5:30 A.M.	on	11/6/60
Max. Peak Outf.	360.	C.F.S. from	10:00 A.M.	on	11/25/60	to	10:15 A.M.	on	11/25/60

REMARKS ( ) INDICATES PERCOLATION AND OTHER LOSSES

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
K.M. YORK	Dam Tender	Gage Hts. copied	RAP	GLW
R.V. WOOD.	Hydrographer	Storage applied	RAP	GLW
	Hydrographer	Inf. & Outf. comp.	RAP	GLW

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam

For On Arroyo Seco for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2838.6 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of December 1959 Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	1025.4	337.0	1.3	1.1	1022.8	240.9	0	0.9	1021.1	188.4	0	0.4	1020.0	158.9	0	0	1
2	1025.3	332.9	1.2	1.1	1022.8	240.9	0	0.8	1021.0	185.4	0	0.4	1020.0	158.9	0	0	2
3	1025.3	332.9	1.2	1.1	1022.7	237.6	0	0.8	1020.9	182.8	0	0.3	1019.9	156.5	0	0	3
4	1025.2	328.8	1.1	1.0	1022.6	234.4	0	0.7	1020.8	180.1	0	0.3	1019.9	156.5	0	0	4
5	1025.1	324.7	1.1	1.0	1022.5	231.2	0	0.7	1020.8	180.1	0	0.3	1019.9	156.5	0	0	5
6	1025.0	320.6	1.0	1.0	1022.4	227.9	0	0.6	1020.8	180.1	1.3	0.6	1019.8	154.2	0	0	6
7	1024.9	316.8	0.9	1.0	1022.3	224.6	0	0.6	1020.8	180.1	0	0.3	1019.8	154.2	0	0	7
8	1024.8	313.0	0.9	0.9	1022.2	221.4	0	0.5	1020.7	177.4	0	0.2	1019.7	151.8	0	0	8
9	1024.7	309.2	0.8	0.9	1022.1	218.2	0	0.5	1020.6	174.8	0	0.2	1019.7	151.8	0	0	9
10	1024.7	309.2	0.8	1.0	1022.0	214.9	0	0.5	1020.6	174.8	0	0.2	1019.6	149.5	0	0	10
11	1024.6	305.4	0.8	1.0	1022.0	214.9	0	0.5	1020.5	172.2	0	0.1	1019.6	149.5	0	0	11
12	1024.5	301.6	0.7	1.0	1021.9	212.0	0	0.5	1020.4	169.5	0	0.1	1019.5	147.1	0	0	12
13	1024.4	297.9	0.7	1.0	1021.8	209.0	0	0.5	1020.4	169.5	0	0.1	1019.5	147.1	0	0	13
14	1024.3	294.1	0.6	1.0	1021.7	206.0	0	0.4	1020.4	169.5	0	0.1	1019.4	144.7	0	0	14
15	1024.2	290.3	0.6	1.0	1022.4	227.9	12.5	0.4	1020.3	166.8	0	0.1	1019.4	144.7	0	0	15
16	1024.1	286.5	0.6	1.0	1022.3	224.6	0	0.4	1020.3	166.8	0	0	1019.3	142.4	0	0	16
17	1024.0	282.7	0.5	0.9	1022.2	221.4	0	0.4	1020.2	164.2	0	0	1019.3	142.4	0	0	17
18	1023.9	279.2	0.4	0.9	1022.1	218.2	0	0.4	1020.2	164.2	0	0	1019.2	140.0	0	0	18
19	1023.8	275.6	0.4	0.9	1022.0	214.9	0	0.4	1020.1	161.6	0	0	1019.2	140.0	0	0	19
20	1023.7	272.1	0.3	0.8	1021.9	212.0	0	0.4	1020.1	161.6	0	0	1019.1	137.7	0	0	20
21	1023.6	268.6	0.2	0.8	1021.9	212.0	0	0.4	1020.0	158.9	0	0	1019.1	137.7	0	0	21
22	1023.5	265.0	0.2	0.8	1021.8	209.0	0	0.4	1020.3	166.8	3.9	0	1019.0	135.3	0	0	22
23	1023.4	261.5	0	0.8	1021.7	206.0	0	0.4	1020.3	166.8	0	0	1019.0	135.3	0	0	23
24	1023.3	258.0	0	0.8	1021.7	206.0	0	0.4	1020.2	164.2	0	0	1017.6	107.3	0	12.9	24
25	1023.2	254.5	0	0.8	1021.6	203.1	0	0.4	1020.2	164.2	0	0		0	0	54.1	25
26	1023.1	250.9	0	0.8	1021.5	200.2	0	0.4	1020.1	161.6	0	0		0	0	0	26
27	1023.0	247.4	0	0.8	1021.5	200.2	0	0.4	1020.1	161.6	0	0		0	0	0	27
28	1022.9	244.2	0	0.9	1021.4	197.2	0	0.4	1020.1	161.6	0	0		0	0	0	28
29					1021.3	194.2	0	0.4	1020.0	158.9	0	0		0	0	0	29
30					1021.3	194.2	0	0.4	1020.0	158.9	0	0		0	0	0	30
31					1021.2	191.3	0	0.4						0			31
TOTAL			16.3	26.1			12.5	15.3			5.2	3.7			0	67.0	
Inf. Ac. Ft.			32.3				24.8				10.3				0	1034.5	
Outf. Ac. Ft.			518 + 734				303 + 474				73 + 353			1329 + 260		488.3 + 546.3	
Maximum Mean Daily Inflow			1.3				12.5				3.9				0	131.1	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change	-928				-529				-324				-1589			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1029.1	feet	on	11/13/60	Storage	504.7	Acre Feet			
Min. W. S. Elev.	986. ±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet			
Max. Peak Inf.	1260	C.F.S. from	5:00 A.M.	on	1/6/60	to	5:30 A.M.	on	11/6/60	
Max. Peak Outf.	360.	C.F.S. from	10:00 A.M.	on	11/25/60	to	10:15 P.M.	on	11/25/60	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
K.M. YORK - D.E. WILSON	Dam Tender	Gage Hts. copied	RAP HRW GLW	
R.V. WOOD	Hydrographer	Storage applied	RAP HRW GLW	
	Hydrographer	Inf. & Outf. comp.	RAP HRW GLW	

REMARKS ( ) INDICATES PERCOLATION AND OTHER LOSSES
[ ] INDICATES AVERAGE FOR PERIOD

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of DEVIL'S GATE Dam

For On Arroyo Seco for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 31.9 Square Miles. Capacity of Reservoir 2838.6 Ac. Ft. at Spillway Elev. 1054.0 Ft. as of December 1959 Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1			0	0			0	0			0	0			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18		STORAGE	0	0		STORAGE	0	0		STORAGE	0	0		STORAGE	0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21		NO	0	0		NO	0	0		NO	0	0		NO	0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	1034.5	
Outf. Ac. Ft.			0				0				0				0	488.3+546.3	
Maximum Mean Daily Inflow			0				0				0				0	131.1	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change	0				0				0				0			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1029.1	feet	on	11/13/60	Storage	504.7	Acre Feet			
Min. W. S. Elev.	986. ±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet			
Max. Peak Inf.	1260.	C.F.S. from	5:00 A.M.	on	11/6/60	to	5:30 A.M.	on	11/6/60	
Max. Peak Outf.	360.	C.F.S. from	10:00 A.M.	on	11/25/60	to	10:15 A.M.	on	11/25/60	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
D.E. WILSON	Dam Tender	Gage Hts. copied	RAP GLW	
R.V. WOOD	Hydrographer	Storage applied	RAP GLW	
	Hydrographer	Inf. & Outf. comp.	RAP GLW	

REMARKS ( ) INDICATES PERCOLATION AND OTHER LOSSES

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of EATON WASH Dam

~~In~~ On Eaton Wash for the Year Ending September 30, 1960

Drainage Area 12.1 Square Miles. Capacity of Reservoir 817.4 / 725.3 Ac. Ft. at Spillway Elev. 887.5 Ft. as of December 1959 / November 1959

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1			0	0			0	0			0	0	846.7	0.4	0	0	1
2			0	0			0	0			0	0	846.6	*0.3	0	0	2
3			0	0			0	0			0	0	846.5	*0.2	0	0	3
4			0	0			0	0			0	0	846.5	*0.1	0	0	4
5			0	0			0	0			0	0	846.4	0	0	0	5
6			0	0			0	0			0	0		0	0	0	6
7			0	0			0	0			0	0		0	0	0	7
8			0	0			0	0			0	0		0	0	0	8
9			0	0			0	0			0	0		0	0	0	9
10			0	0			0	0			0	0	854.9	8.2	4.1	0	10
11			0	0			0	0			0	0	856.5	13.8	3.1	0	11
12		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0	857.0	15.8	1.3	0	12
13			0	0			0	0			0	0	856.6	14.2	0	0	13
14			0	0			0	0			0	0	856.5	13.8	0	0	14
15			0	0			0	0			0	0	856.6	14.2	0.5	0	15
16			0	0			0	0			0	0	856.4	13.4	0	0	16
17			0	0			0	0			0	0	856.2	12.6	0	0	17
18			0	0			0	0			0	0	856.1	12.2	0	0	18
19			0	0			0	0			0	0	855.9	11.5	0	0	19
20			0	0			0	0			0	0	855.7	10.8	0	0	20
21			0	0			0	0			0	0	855.6	10.5	0	0	21
22			0	0			0	0			0	0	855.5	10.1	0	0	22
23			0	0			0	0			0	0	855.3	9.5	0	0	23
24			0	0			0	0	853.8	5.2	2.6	0	855.2	9.1	0	0	24
25			0	0			0	0	853.2	4.0	0	0	855.2	9.1	0.2	0	25
26			0	0			0	0	852.7	3.2	0	0	855.0	8.5	0	0	26
27			0	0			0	0	852.2	2.5	0	0	854.9	8.2	0	0	27
28			0	0			0	0	851.7	2.0	0	0	854.8	7.9	0	0	28
29			0	0			0	0	850.6	1.3	0	0	854.6	7.3	0	0	29
30			0	0			0	0	849.1	0.8	0	0	854.5	7.1	0	0	30
31			0	0					847.0	0.5	0	0	854.3	6.5	0	0	31
TOTAL			0	0			0	0			2.6	0			9.2	0	
Inf. Ac. Ft.			0				0				5.2				18.1	2.3.3	
Outf. Ac. Ft.			0				0				0 +	(4.7)			0 + (12.1)	0 + (16.8)	
Maximum Mean Daily Inflow			0				0				2.6				4.1	4.1	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				+0.5				+6.0		+6.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	857.6	feet	on 1/12/60	Storage	18.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	838. +	feet	on VARIOUS DAYS	Storage	0	Acre Feet	H.E. WILSON	Dam Tender	Gage Hts. copied RAP TS
Max. Peak Inf.	48.4	C.F.S. from	11:30 P.M. on 1/11/60	to	12:30 A.M.	on 1/12/60	J. HOLLERON	Hydrographer	Storage applied RAP TS
Max. Peak Outf.	0	C.F.S. from	- on -	to	-	on -		Hydrographer	Inf. & Outf. comp. RAP TS

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
* STORAGE ESTIMATED DUE TO SILTATION

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of EATON WASH Dam

~~In~~ On Eaton Wash for the Year Ending September 30, 1960

Drainage Area 12.1 Square Miles. Capacity of Reservoir 817.4 Ac. Ft. at Spillway Elev. 887.5 Ft. as of December 1959

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	856.2	12.6	3.5	0	855.2	9.1	0.3	0	852.0	2.2	0	0	855.9	11.5	0	0	1
2	856.1	12.2	0.2	0	855.0	8.5	0	0	851.8	2.1	0	0	855.7	10.8	0	0	2
3	855.9	11.5	0	0	854.8	7.9	0	0	851.6	1.9	0	0	855.6	10.5	0	0	3
4	855.8	11.1	0	0	854.7	7.6	0	0	851.3	1.7	0	0	855.5	10.1	0	0	4
5	855.7	10.8	0	0	854.5	7.1	0	0	851.0	1.5	0	0	855.3	9.5	0	0	5
6	855.5	10.1	0	0	854.4	6.8	0	0	850.7	1.4	0	0	855.2	9.1	0	0	6
7	855.3	9.5	0	0	854.2	6.2	0	0	850.4	1.2	0	0	855.0	8.5	0	0	7
8	856.2	12.6	2.1	0	854.2	6.2	0	0	850.1	1.1	0	0	854.9	8.2	0	0	8
9	856.0	11.8	0.1	0	854.1	5.9	0	0	849.9	1.0	0	0	854.7	7.6	0	0	9
10	855.9	11.5	0.3	0	853.9	5.4	0	0	849.7	1.0	0	0	854.6	7.3	0	0	10
11	855.8	11.1	0	0	853.8	5.2	0	0	849.5	0.9	0	0	854.4	6.8	0	0	11
12	855.6	10.5	0	0	853.7	5.0	0	0	849.2	0.9	0	0	854.3	6.5	0	0	12
13	855.4	9.8	0	0	853.5	4.6	0	0	849.1	0.8	0	0	854.1	5.9	0	0	13
14	855.3	9.5	0	0	853.4	4.4	0	0	849.0	0.8	0	0	854.0	5.7	0	0	14
15	855.1	8.8	0	0	853.2	4.0	0	0	848.9	0.8	0	0	853.9	5.4	0	0	15
16	855.0	8.5	0	0	853.0	3.6	0	0	848.8	0.8	0	0	853.8	5.2	0	0	16
17	854.9	8.2	0	0	852.9	3.4	0	0	848.6	0.7	0	0	853.7	5.0	0	0	17
18	854.7	7.6	0	0	852.7	3.2	0	0	848.4	0.7	0	0	853.5	4.6	0	0	18
19	854.6	7.3	0	0	852.5	2.9	0	0	848.2	0.7	0	0	853.4	4.4	0	0	19
20	854.5	7.1	0	0	852.1	2.4	0	0		0	0	0	853.2	4.0	0	0	20
21	854.4	6.8	0	0	851.8	2.1	0	0		0	0	0	853.0	3.6	0	0	21
22	854.2	6.2	0	0	851.4	1.8	0	0		0	0	0	852.8	3.3	0	0	22
23	854.1	5.9	0	0	850.6	1.3	0	0		0	0	0	852.7	3.2	0	0	23
24	854.0	5.7	0	0	850.0	1.1	0	0		0	0	0	852.5	2.9	0	0	24
25	853.8	5.2	0	0	849.7	1.0	0	0		0	0	0	852.4	2.8	0	0	25
26	853.7	5.0	0	0	849.6	1.0	0	0	853.4	4.4	2.2	0	852.2	2.5	0	0	26
27	853.6	4.8	0	0	852.1	2.4	0.9	0	856.8	15.0	5.8	0	852.0	2.2	0	0	27
28	853.8	5.2	0.3	0	852.6	3.0	0.6	0	856.5	13.8	0	0	851.7	2.0	0	0	28
29	855.2	9.1	2.3	0	852.4	2.8	0	0	856.3	13.0	0	0	851.5	1.9	0	0	29
30					852.3	2.6	0	0	856.1	12.2	0	0	851.1	1.6	0	0	30
31					852.1	2.4	0	0					850.7	1.4	0	0	31
TOTAL			8.8	0			1.8	0			8.0	0			0	0	
Inf. Ac. Ft.			17.5				3.6				15.9				0	6.0.3	
Outf. Ac. Ft.			0 +	(14.9)			0 +	(10.3)			0 +	(6.1)			0 + (10.8)	0 + (5.8.9)	
Maximum Mean Daily Inflow			3.5				0.9				5.8				0	5.8	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		+2.6				-6.7				+9.8				-10.8		+1.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	857.6	feet	on 1/12/60	Storage	18.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	838. +	feet	on VARIOUS DAYS	Storage	0	Acre Feet	H.E. WILSON	Dam Tender	Gage Hts. copied RAP HRW TS
Max. Peak Inf.	48.4	C.F.S. from	11:30 P.M. on 1/11/60	to	12:30 A.M.	on 1/12/60	J. HOLLERON	Hydrographer	Storage applied RAP HRW TS
Max. Peak Outf.	0	C.F.S. from	on	to		on	D.W. BOWMAN	Hydrographer	Inf. & Outf. comp. RAP TS

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-68B Clb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of EATON WASH Dam

~~In~~ On Eaton Wash for the Year Ending September 30, 1960

Drainage Area 12.1 Square Miles. Capacity of Reservoir 817.4 Ac. Ft. at Spillway Elev. 887.5 Ft. as of December, 1959

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	850.4	1.2	0	0			0	0			0	0			0	0	1
2	850.1	1.1	0	0			0	0			0	0			0	0	2
3	849.7	1.0	0	0			0	0			0	0			0	0	3
4	849.5	0.9	0	0			0	0			0	0			0	0	4
5	849.4	0.9	0	0			0	0			0	0			0	0	5
6	849.2	0.9	0	0			0	0			0	0			0	0	6
7	849.1	0.8	0	0			0	0			0	0			0	0	7
8	849.1	0.8	0	0			0	0			0	0			0	0	8
9	849.0	0.8	0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	6.0.3	
Outf. Ac. Ft.			0 + (1.4)				0				0				0	0 + (6.0.3)	
Maximum Mean Daily Inflow			0				0				0				0	5.8	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		- 1.4				0				0				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	857.6	feet	on	1/12/60	Storage	18.9	Acre Feet		
Min. W. S. Elev.	838. +	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		
Max. Peak Inf.	48.4	C. F. S. from	11:30 P.M.	on	1/11/60	to	12:30 A.M.	on	1/12/60
Max. Peak Outf.	0	C. F. S. from	-	on	-	to	-	on	-
REMARKS	( ) INDICATES EVAPORATION AND OTHER LOSSES								

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
H.E. WILSON	Dam Tender	Gage Hts. copied	RAP TS	
D.W. BOWMAN	Hydrographer	Storage applied	RAP TS	
	Hydrographer	Inf. & Outf. comp.	RAP TS	

76D138N-38B Clb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of EATON WASH Dam

In On Eaton Wash for the Year Ending September 30, 1961

Drainage Area 9.48 Square Miles. Capacity of Reservoir 817.4 Ac. Ft. at Spillway Elev. 887.5 Ft. as of December, 1959

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1			0	0	844.2	0.2	0	0	856.0	11.8	0	0	853.3	4.2	0	0	1
2			0	0	843.9	0.2	0	0	855.9	11.5	0	0	853.3	4.2	0	0	2
3			0	0	852.7	3.2	1.9	0	855.8	11.1	0	0	853.2	4.0	0	0	3
4			0	0	852.1	2.4	0	0	855.7	10.8	0	0	853.0	3.6	0	0	4
5			0	0	854.7	7.6	2.8	0	855.6	10.5	0	0	852.9	3.4	0	0	5
6			0	0	856.7	14.6	4.0	0	855.5	10.1	0	0	852.8	3.3	0	0	6
7			0	0	856.3	13.0	0	0	855.4	9.8	0	0	852.8	3.3	0	0	7
8			0	0	856.0	11.8	0	0	855.3	9.5	0	0	852.7	3.2	0	0	8
9			0	0	855.8	11.1	0	0	855.2	9.1	0	0	852.7	3.2	0	0	9
10			0	0	855.6	10.5	0	0	855.1	8.8	0	0	852.6	3.0	0	0	10
11			0	0	855.4	9.8	0	0	855.0	8.5	0	0	852.5	2.9	0	0	11
12			0	0	857.3	17.3	4.8	0	855.0	8.5	0	0	852.4	2.8	0	0	12
13			0	0	857.0	15.6	0	0	854.9	8.2	0	0	852.3	2.6	0	0	13
14			0	0	856.8	15.0	0	0	954.8	7.9	0	0	852.2	2.5	0	0	14
15			0	0	856.6	14.2	0	0	854.7	7.6	0	0	852.2	2.5	0	0	15
16			0	0	856.3	13.0	0	0	854.6	7.3	0	0	852.1	2.4	0	0	16
17			0	0	856.1	12.2	0	0	854.5	7.1	0	0	851.9	2.2	0	0	17
18			0	0	856.0	11.8	0	0	854.4	6.8	0	0	851.8	2.1	0	0	18
19			0	0	855.8	11.1	0	0	854.4	6.8	0	0	851.8	2.1	0	0	19
20			0	0	855.7	10.8	0	0	854.3	6.5	0	0	851.7	2.0	0	0	20
21			0	0	855.6	10.5	0	0	854.2	6.2	0	0	851.7	2.0	0	0	21
22			0	0	855.5	10.1	0	0	854.1	5.9	0	0	851.6	1.9	0	0	22
23			0	0	855.4	9.8	0	0	854.0	5.7	0	0	851.6	1.9	0	0	23
24			0	0	855.3	9.5	0	0	854.0	5.7	0	0	851.5	1.9	0	0	24
25			0	0	855.2	9.1	0	0	853.9	5.4	0	0	851.4	1.8	0	0	25
26			0	0	856.6	14.2	3.3	0	853.8	5.2	0	0	857.8	19.9	10.5	0	26
27			0	0	856.4	13.4	0	0	853.7	5.0	0	0	857.3	17.3	0	0	27
28			0	0	856.3	13.0	0	0	853.6	4.8	0	0	857.0	15.8	0	0	28
29	845.5	0.3	0.2	0	856.1	12.2	0	0	853.5	4.6	0	0	856.8	15.0	0	0	29
30	844.8	0.3	0	0	856.0	11.8	0	0	853.4	4.4	0	0	856.7	14.6	0	0	30
31	844.5	0.2	0	0					853.4	4.4	0	0	856.5	13.8	0	0	31
TOTAL			0.2	0			16.8	0			0	0			10.5	0	
Inf. Ac. Ft.			0.4				33.3				0				20.8	54.5	
Outf. Ac. Ft.			0 + (0.2)				0 + (21.8)				0 + (7.3)				0 + (11.5)	0 + (40.8)	
Maximum Mean Daily Inflow			0.2				4.8				0				10.5	10.5	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		+ 0.2				- 11.6				- 7.4				+ 9.4		+ 13.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	857.8	feet	on	1/26/61	Storage	19.9	Acre Feet		
Min. W. S. Elev.	838. +	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		
Max. Peak Inf.	38.7	C. F. S. from	11:30 A.M.	on	1/26/61	to	12:00 NOON	on	1/26/61
Max. Peak Outf.	+	C. F. S. from		on	7/28/61	to		on	
REMARKS	( ) INDICATES EVAPORATION AND OTHER LOSSES								

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
H.E. WILSON	Dam Tender	Gage Hts. copied	RAP GLW	
R.V. WOOD	Hydrographer	Storage applied	RAP GLW	
	Hydrographer	Inf. & Outf. comp.	RAP GLW	

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of EATON WASH Dam

In Eaton Wash for the Year Ending September 30, 19 61
On

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 817.4 Ac. Ft. at Spillway Elev. 887.5 Ft. as of December 19 59

Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	856.3	13.0	0	0	853.5	4.6	0	0	852.3	2.5	0	0	850.8	1.4	0	0	1
2	856.2	12.6	0	0	853.4	4.4	0	0	852.2	2.5	0	0	850.7	1.4	0	0	2
3	856.1	12.2	0	0	853.3	4.2	0	0	852.1	2.4	0	0	850.7	1.4	0	0	3
4	855.9	11.5	0	0	853.2	4.0	0	0	852.0	2.2	0	0	850.6	1.3	0	0	4
5	855.8	11.1	0	0	853.1	3.8	0	0	852.0	2.2	0	0	850.6	1.3	0	0	5
6	855.7	10.8	0	0	853.0	3.6	0	0	852.1	2.4	0.4	0	850.5	1.3	0	0	6
7	855.6	10.5	0	0	852.9	3.4	0	0	852.0	2.2	0	0	850.4	1.2	0	0	7
8	855.5	10.1	0	0	852.8	3.3	0	0	851.9	2.2	0	0	850.3	1.2	0	0	8
9	855.4	9.8	0	0	852.7	3.2	0	0	851.9	2.2	0	0	850.2	1.2	0	0	9
10	855.3	9.5	0	0	852.6	3.0	0	0	851.8	2.1	0	0	850.1	1.1	0	0	10
11	855.2	9.1	0	0	852.5	2.9	0	0	851.7	2.0	0	0	850.0	1.1	0	0	11
12	855.0	8.5	0	0	852.4	2.8	0	0	851.6	1.9	0	0	849.9	1.0	0	0	12
13	854.9	8.2	0	0	852.4	2.8	0	0	851.5	1.9	0	0	849.8	1.0	0	0	13
14	854.8	7.9	0	0	852.3	2.6	0	0	851.4	1.8	0	0	849.7	1.0	0	0	14
15	854.8	7.9	0	0	853.7	5.0	1.7	0	851.3	1.7	0	0	849.6	1.0	0	0	15
16	854.7	7.6	0	0	853.6	4.8	0	0	851.2	1.6	0	0	849.5	0.9	0	0	16
17	854.6	7.3	0	0	853.4	4.4	0	0	851.1	1.6	0	0	849.4	0.9	0	0	17
18	854.5	7.1	0	0	853.3	4.2	0	0	851.0	1.5	0	0	849.3	0.9	0	0	18
19	854.4	6.8	0	0	853.2	4.0	0	0	851.0	1.5	0	0	849.2	0.9	0	0	19
20	854.3	6.5	0	0	853.1	3.8	0	0	850.9	1.4	0	0	849.2	0.9	0	0	20
21	854.2	6.2	0	0	853.0	3.6	0	0	850.8	1.4	0	0	849.1	0.8	0	0	21
22	854.1	5.9	0	0	852.9	3.4	0	0	851.5	1.9	0.5	0	849.0	0.8	0	0	22
23	854.0	5.7	0	0	852.8	3.3	0	0	851.4	1.8	0	0	848.9	0.8	0	0	23
24	854.0	5.7	0	0	853.0	3.6	0.7	0	851.3	1.7	0	0	848.9	0.8	0	0	24
25	853.9	5.4	0	0	852.9	3.4	0	0	851.2	1.6	0	0	848.8	0.8	0	0	25
26	853.8	5.2	0	0	852.8	3.3	0	0	851.3	1.7	0	0	848.8	0.8	0	0	26
27	853.7	5.0	0	0	852.7	3.2	0	0	851.2	1.6	0	0	848.7	0.8	0	0	27
28	853.6	4.8	0	0	852.6	3.0	0	0	851.1	1.6	0	0	848.7	0.8	0	0	28
29					852.5	2.9	0	0	851.0	1.5	0	0	848.6	0.7	0	0	29
30					852.5	2.9	0	0	850.9	1.4	0	0	848.6	0.7	0	0	30
31					852.4	2.8	0	0					848.5	0.7	0	0	31
TOTAL			0	0			2.4	0			0.9	0			0	0	
Inf. Ac. Ft.			0				4.8				1.8				0	61.1	
Outf. Ac. Ft.			0 + (9.0)				0 + (6.8)				0 + (3.2)				0 + (0.7)	0 + (60.5)	
Maximum Mean Daily Inflow			0				1.7				0.5				0	10.5	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-9.0				-2.0				-1.4				-0.7		+0.7	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	857.8	feet on	1/26/61	Storage	19.9	Acre Feet		
Min. W. S. Elev.	838. +	feet on	VARIOUS DAYS	Storage	0	Acre Feet		
Max. Peak Inf.	38.7	C. F. S. from	11:30 A.M. on	1/26/60	to 12:00 NOON	on	1/26/60	
Max. Peak Outf.	+	C. F. S. from		on	7/28/61	to		on

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
H.E. WILSON	Dam Tender	Gage Hts. copied	RAP GLW	
R.V. WOOD	Hydrographer	Storage applied	RAP GLW	
	Hydrographer	Inf. & Outf. comp.	RAP GLW	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of EATON WASH Dam

In Eaton Wash for the Year Ending September 30, 19 61
On

Continuous Water Stage Recorder Au

Drainage Area 9.48 Square Miles. Capacity of Reservoir 817.4 Ac. Ft. at Spillway Elev. 887.5 Ft. as of December 19 59

Gage Heights Read Daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	848.5	0.7	0	0	846.9	0.5	0	0			0	0			0	0	1
2	848.4	0.7	0	0	846.8	0.5	0	0			0	0			0	0	2
3	848.3	0.7	0	0	846.6	0.5	0	0			0	0			0	0	3
4	848.3	0.7	0	0	846.7	0.4	0	0			0	0			0	0	4
5	848.2	0.7	0	0	846.7	0.4	0	0			0	0			0	0	5
6	848.2	0.7	0	0	846.6	0.4	0	0			0	0			0	0	6
7	848.1	0.6	0	0	846.5	0.4	0	0			0	0			0	0	7
8	848.1	0.6	0	0	846.5	0.4	0	0			0	0			0	0	8
9	848.0	0.6	0	0	846.4	0.4	0	0			0	0			0	0	9
10	848.0	0.6	0	0	846.4	0.4	0	0			0	0			0	0	10
11	847.9	0.6	0	0	846.4	0.4	0	0			0	0			0	0	11
12	847.9	0.6	0	0	846.4	0.4	0	0			0	0			0	0	12
13	847.8	0.6	0	0	846.4	0.4	0	0			0	0			0	0	13
14	847.8	0.6	0	0	846.4	0.4	0	0			0	0			0	0	14
15	847.7	0.6	0	0	846.3	0.4	0	0			0	0			0	0	15
16	847.7	0.6	0	0	846.3	0.4	0	0			0	0			0	0	16
17	847.6	0.6	0	0	846.3	0.4	0	0			0	0			0	0	17
18	847.6	0.6	0	0	846.2	0.4	0	0			0	0			0	0	18
19	847.5	0.6	0	0	846.2	0.4	0	0			0	0			0	0	19
20	847.5	0.6	0	0	846.1	0.4	0	0			0	0	NO STORAGE		0	0	20
21	847.4	0.5	0	0	846.1	0.4	0	0			0	0			0	0	21
22	847.4	0.5	0	0	846.1	0.4	0	0			0	0			0	0	22
23	847.3	0.5	0	0	846.0	0.4	0	0			0	0			0	0	23
24	847.2	0.5	0	0	845.9	0.4	0	0			0	0			0	0	24
25	847.2	0.5	0	0	845.9	0.4	0	0	POOL		0	0			0	0	25
26	847.2	0.5	0	0	845.8	0.4	0	0	0		0	0			0	0	26
27	847.1	0.5	0	0	845.8	0.4	0	0	0		0	0			0	0	27
28	847.0	0.5	0	0	843.0	0.2	0	0.1	0		0	0			0	0	28
29	847.0	0.5	0	0	843.0	0.2	0	0	0		0	0			0	0	29
30	846.9	0.5	0	0	843.0	0.2	0	0	0		0	0			0	0	30
31					843.0	0.2	0	0	0		0	0					31
TOTAL			0	0			0	0.1			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	61.1	
Outf. Ac. Ft.			0 + (0.2)				0.2 + (0.1)				0 + (0.2)				0	0 + (61.0)	
Maximum Mean Daily Inflow			0				0				0				0	10.5	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-0.2				-0.3				-0.2			0			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	857.8	feet on	1/26/61	Storage	19.9	Acre Feet		
Min. W. S. Elev.	838. +	feet on	VARIOUS DAYS	Storage	0	Acre Feet		
Max. Peak Inf.	38.7	C. F. S. from	1:30 A.M. on	1/26/61	to 12:00 NOON	on	1/26/61	
Max. Peak Outf.	+	C. F. S. from		on	7/28/61	to		on

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
H.E. WILSON	Dam Tender	Gage Hts. copied	RAP GLW	
R.V. WOOD	Hydrographer	Storage applied	RAP GLW	
	Hydrographer	Inf. & Outf. comp.	RAP GLW	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D 138N-68B Gib 12-57

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In SANTA ANITA CANYON for the Year Ending September 30, 19 60

~~On~~

Drainage Area 10.8 Square Miles. Capacity of Reservoir 566.6 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of September 19 58

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1	1276.8	215.2	0.7	0.05	1253.4	113.6	1.0	0.05	1266.6	165.6	0.8	0.05	1261.2	143.2	1.2	0.05	1
2	1277.1	216.8	0.7	0.05	1254.2	116.5	1.0	0.05	1266.9	167.0	0.8	0.05	1261.7	145.2	1.2	0.05	2
3	1277.4	218.5	0.7	0.05	1254.9	119.1	1.0	0.05	1267.2	168.3	0.8	0.05	1262.3	147.6	1.2	0.05	3
4	1277.7	220.2	0.7	0.05	1255.6	121.7	1.0	0.05	1267.5	169.6	0.8	0.05	1262.8	149.7	1.2	0.05	4
5	1279.9	221.2	0.7	0.05	1256.2	123.9	1.0	0.05	1267.7	170.5	0.8	0.05	1263.2	151.3	1.1	0.3	5
6	1278.1	222.4	0.7	0.05	1256.8	126.2	1.0	0.05	1268.0	171.8	0.8	0.05	1263.4	152.1	1.1	0.7	6
7	1278.3	223.5	0.7	0.05	1257.4	128.4	1.0	0.05	1268.3	173.2	0.8	0.05	1263.6	153.0	1.1	0.7	7
8	1278.6	225.2	0.7	0.05	1257.8	129.9	1.0	0.05	1268.6	174.5	0.8	0.05	1263.9	154.2	1.1	0.7	8
9	1278.8	226.4	0.7	0.05	1258.3	131.8	1.0	0.05	1269.0	176.3	0.8	0.05	1264.1	155.0	1.1	0.7	9
10	1279.0	227.5	0.7	0.05	1258.8	133.7	1.0	0.05	1269.3	177.6	0.7	0.05	1266.3	164.3	5.3	0.7	10
11	1279.2	228.7	0.7	0.05	1259.2	135.3	1.0	0.05	1269.7	179.4	0.7	0.05	1267.7	170.5	3.9	0.7	11
12	1279.4	229.8	0.7	0.05	1259.6	136.8	1.0	0.05	1270.1	181.3	0.7	0.05	1266.1	163.4	5.8	9.4	12
13	1279.6	231.0	0.7	0.05	1259.9	138.0	1.0	0.05	1270.4	182.7	0.7	0.05	1260.4	140.0	3.5	15.3	13
14	1279.8	232.1	0.7	0.05	1260.5	140.4	1.0	0.05	1270.7	184.1	0.7	0.05	1255.3	120.6	3.3	13.1	14
15	1280.0	233.3	0.7	0.05	1260.9	142.0	1.0	0.05	1271.0	185.5	0.7	0.05	1252.2	109.4	4.2	9.8	15
16	1280.2	234.5	0.7	0.05	1261.3	143.6	0.9	0.05	1268.6	174.5	1.5	6.5	1254.1	116.2	3.4	0.05	16
17	1280.4	235.7	0.6	0.05	1261.7	145.2	0.9	0.05	1262.7	149.3	1.5	14.2	1255.7	122.1	3.1	0.05	17
18	1280.5	236.2	0.6	0.05	1262.1	146.8	0.9	0.05	1255.9	122.8	1.5	14.9	1257.0	126.9	2.4	0.05	18
19	1280.7	237.4	0.6	0.05	1262.5	148.4	0.9	0.05	1251.1	105.6	1.4	9.9	1258.1	131.1	2.2	0.05	19
20	1280.9	238.6	0.6	0.05	1262.9	150.1	0.9	0.05	1251.6	107.3	1.4	1.2	1259.0	134.5	1.8	0.05	20
21	1279.5	230.4	1.6	5.3	1263.3	151.7	0.9	0.05	1252.2	109.4	1.9	0.8	1259.9	138.0	1.8	0.05	21
22	1276.1	211.4	1.6	10.7	1263.6	153.0	0.9	0.05	1253.2	112.9	1.8	0.05	1260.8	141.6	1.8	0.05	22
23	1272.6	193.2	1.6	10.6	1264.0	154.6	0.9	0.05	1254.0	115.8	1.5	0.05	1261.6	144.8	1.7	0.05	23
24	1269.0	176.3	1.6	10.4	1264.3	155.9	0.9	0.05	1255.4	121.0	2.7	0.05	1262.4	148.0	1.7	0.05	24
25	1265.0	158.8	1.6	10.3	1264.7	157.5	0.9	0.05	1256.7	125.8	2.4	0.05	1263.4	152.1	2.1	0.05	25
26	1261.0	142.4	1.6	10.2	1265.0	158.8	0.9	0.05	1257.6	129.2	1.8	0.05	1264.5	156.7	2.4	0.05	26
27	1256.6	125.4	1.6	10.0	1265.3	160.1	0.9	0.05	1258.3	131.8	1.4	0.05	1265.4	160.5	1.9	0.05	27
28	1252.2	109.4	1.6	9.9	1265.6	161.3	0.9	0.05	1258.9	134.1	1.2	0.05	1266.2	163.9	1.8	0.05	28
29	1250.7	104.2	1.7	4.9	1266.0	163.0	0.9	0.05	1259.5	136.4	1.2	0.05	1267.0	167.4	1.8	0.05	29
30	1251.7	107.6	1.8	0.05	1266.3	164.3	0.9	0.05	1260.1	138.8	1.2	0.05	1267.7	170.5	1.6	0.05	30
31	1252.6	110.8	1.7	0.05					1260.7	141.2	1.3	0.05	1268.4	173.6	1.6	0.05	31
TOTAL			31.6	83.40			28.5	1.50			37.1	48.75			69.4	53.10	
Inf. Ac. Ft.			62.7				56.5				73.6				137.7	330.5	
Outf. Ac. Ft.			165.4				3.0				96.7				105.3	370.4	
Maximum Mean Daily Inflow			1.8				1.0				2.7				5.8	5.8	
Minimum Mean Daily Inflow			0.6				0.9				0.7				1.1	0.6	
Storage Change			-102.8				+53.5				-23.1				+32.4	-40.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1294.9	feet	on	7/5/60	Storage	345.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1192. ±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	K.A. SHIPLEY	Dam Tender	Gage Hts. copied	TS GLW
Max. Peak Inf.	15.8	C. F. S. from	11:00 P.M. on	2/1/60	to	12:00 MID.	on 2/1/60	J. HOLLERON	Hydrographer	Storage applied	TS GLW
Max. Peak Outf.	26.8	C. F. S. from	7:50 A.M. on	7/5/60	to	7:55 A.M.	on 7/6/60		Hydrographer	Inf. & Outf. comp.	TS GLW

REMARKS [INDICATES AVERAGE FOR PERIOD

76D 138N-68B Gib 12-57

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 19 60

~~On~~

Drainage Area 10.8 Square Miles. Capacity of Reservoir 566.6 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of September 19 58

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	1269.9	180.4	3.5	0.05	1264.5	156.7	6.5	0.1	1263.6	153.0	1.2	0.1	1281.3	241.0	1.2	0.1	1
2	1268.1	172.2	5.9	10.0	1266.2	163.9	3.7	0.1	1264.2	155.4	1.2	0.1	1281.8	244.0	1.2	0.1	2
3	1263.2	151.3	4.2	14.7	1267.4	169.2	2.8	0.1	1264.8	158.0	1.2	0.1	1282.4	247.7	1.2	0.1	3
4	1258.9	134.1	3.6	12.3	1268.5	174.0	2.5	0.1	1265.4	160.5	1.2	0.1	1282.9	250.8	1.2	0.1	4
5	1257.1	127.3	3.2	6.6	1269.5	178.6	2.4	0.1	1265.9	162.6	1.2	0.1	1283.4	254.0	1.2	0.1	5
6	1258.0	130.7	2.9	1.2	1270.3	182.2	2.0	0.1	1266.4	164.8	1.2	0.1	1283.8	256.5	1.2	0.1	6
7	1258.7	133.4	2.5	1.2	1271.1	186.0	2.0	0.1	1266.9	167.0	1.2	0.1	1284.2	259.1	1.2	0.1	7
8	1260.3	139.6	4.4	1.2	1263.3	151.7	2.1	19.1	1267.4	169.2	1.2	0.1	1284.5	261.1	1.2	0.1	8
9	1262.0	146.4	4.6	1.2	1252.3	109.8	2.2	23.6	1267.9	171.4	1.2	0.1	1284.8	263.1	1.2	0.1	9
10	1263.0	150.5	3.3	1.2	1253.5	114.0	2.2	1.3	1268.5	174.0	1.2	0.1	1285.2	265.8	1.2	0.1	10
11	1263.7	153.4	2.7	1.3	1254.4	117.3	2.2	1.3	1269.0	176.3	1.2	0.1	1285.5	267.8	1.2	0.1	11
12	1264.3	155.9	2.6	1.3	1255.2	120.2	2.2	1.3	1269.5	178.6	1.2	0.1	1285.7	269.2	1.2	0.1	12
13	1264.8	158.0	2.3	1.3	1255.8	122.5	2.2	1.3	1270.0	180.8	1.2	0.1	1285.9	270.5	1.2	0.1	13
14	1265.2	159.6	2.1	1.3	1256.4	124.7	2.2	1.3	1270.4	182.7	1.2	0.1	1286.2	272.6	1.2	0.1	14
15	1265.6	161.3	2.2	1.3	1256.8	126.2	2.1	1.3	1270.9	185.0	1.2	0.1	1286.5	274.8	1.2	0.1	15
16	1265.9	162.6	2.0	1.3	1257.2	127.7	2.1	1.3	1271.3	186.9	1.2	0.1	1286.8	276.9	1.2	0.1	16
17	1266.3	164.3	1.9	1.0	1257.5	128.8	2.1	1.3	1271.7	188.9	1.2	0.1	1287.1	279.0	1.2	0.1	17
18	1266.9	167.0	1.9	0.8	1257.8	129.9	2.1	1.3	1272.0	190.3	1.2	0.1	1287.5	282.0	1.2	0.1	18
19	1267.3	168.7	1.8	0.8	1258.1	131.1	2.1	1.3	1272.4	192.3	1.2	0.1	1287.8	284.1	1.2	0.1	19
20	1267.8	170.9	1.8	0.8	1258.3	131.8	2.1	1.3	1272.8	194.2	1.2	0.1	1288.0	285.6	1.2	0.1	20
21	1268.2	172.7	1.8	0.8	1258.5	132.6	2.1	1.4	1273.1	195.7	1.1	0.1	1288.2	287.2	1.2	0.1	21
22	1268.6	174.5	1.8	0.8	1258.7	133.4	2.1	1.4	1273.7	198.8	1.7	0.1	1288.4	288.8	1.2	0.1	22
23	1265.6	161.3	1.8	8.5	1258.9	134.1	2.1	1.4	1274.1	200.8	1.3	0.1	1288.7	291.1	1.2	0.1	23
24	1259.0	134.5	2.2	15.7	1259.1	134.9	2.1	1.4	1274.6	203.4	1.3	0.1	1288.9	292.7	1.2	0.1	24
25	1255.0	119.5	2.6	10.2	1259.3	135.7	2.1	1.4	1275.0	205.5	1.3	0.1	1289.1	294.3	1.2	0.1	25
26	1256.3	124.3	2.5	0.1	1259.5	136.4	2.1	1.4	1275.5	208.2	1.2	0.1	1289.4	296.8	1.2	0.1	26
27	1257.4	128.4	2.2	0.1	1259.9	138.0	2.1	1.4	1277.8	220.7	6.4	0.1	1289.6	298.5	1.2	0.1	27
28	1258.5	132.6	2.2	0.1	1260.7	141.2	2.1	0.9	1279.4	229.8	4.7	0.1	1289.8	300.1	1.2	0.1	28
29	1261.4	144.0	5.9	0.1	1261.4	144.0	2.0	0.7	1280.3	235.1	2.8	0.1	1290.0	301.8	1.1	0.1	29
30					1262.1	146.8	2.0	0.3	1280.8	238.0	1.5	0.1	1290.2	303.5	1.1	0.1	30
31					1262.9	150.1	2.0	0.1					1290.4	305.2	1.1	0.1	31
TOTAL			82.4	97.25			72.6	69.5			47.3	3.0			36.9	3.1	
Inf. Ac. Ft.			163.4				140.0				93.8				73.2	804.9	
Outf. Ac. Ft.			192.9				137.2				6.0				6.1	71.3	
Maximum Mean Daily Inflow			5.9				6.5				6.4				1.2	6.5	
Minimum Mean Daily Inflow			1.8				2.0				1.1				1.1	0.4	
Storage Change			-29.6				+6.1				+87.9				+67.2	+916	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1294.9	feet	on	7/5/60	Storage	345.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1192. ±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	K.A. SHIPLEY	Dam Tender	Gage Hts. copied	RAP TS
Max. Peak Inf.	15.8	C. F. S. from	11:00 P.M. on	2/1/60	to	12:00 MID.	on 2/1/60	J. HOLLERON	Hydrographer	Storage applied	RAP TS
Max. Peak Outf.	26.8	C. F. S. from	7:50 A.M. on	7/5/60	to	7:55 A.M.	on 7/6/60	D.W. BOWMAN	Hydrographer	Inf. & Outf. comp.	RAP TS

REMARKS [INDICATES AVERAGE FOR PERIOD

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 1960

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 586.6 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of September 1958 Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	1290.6	307.0	0.8	0.1	1294.7	343.9	0.4	0.1	1200.9	2.5	0.1	3.2	1197.7	3.0	0.4	0.1	1
2	1290.8	308.7	0.8	0.1	1294.7	343.9	0.3	0.1	*1180.0	0	0.1	1.3	1200.7	4.3	0.4	0.1	2
3	1291.0	310.4	0.8	0.1	1294.8	344.8	0.3	0.1			0.1	0.1	1202.4	5.4	0.4	0.1	3
4	1291.2	312.2	0.8	0.1	1294.8	344.8	0.3	0.1			0.1	0.1	1204.0	6.5	0.4	0.1	4
5	1291.4	313.9	0.8	0.1	1290.8	308.7	0.7	19.3			0.1	0.1	1204.8	7.1	0.4	0.1	5
6	1291.6	315.7	0.8	0.1	1284.5	261.1	0.7	24.7			0.1	0.1	1205.3	7.4	0.4	0.1	6
7	1291.8	317.4	0.8	0.1	1276.5	213.6	0.7	24.5			0.1	0.1	1205.8	7.8	0.4	0.1	7
8	1292.0	319.2	0.8	0.1	1270.5	183.2	0.8	15.9			0.1	0.1	1206.2	8.2	0.4	0.1	8
9	1292.2	321.0	0.8	0.1	1267.9	171.4	1.0	7.5			0.1	0.1	1206.4	8.3	0.4	0.1	9
10	1292.4	322.8	0.8	0.1	1264.9	158.4	1.0	7.4			0.1	0.1	1206.6	8.5	0.4	0.1	10
11	1292.5	323.7	0.8	0.1	1261.7	145.2	1.1	7.3			0.1	0.1	1206.8	8.7	0.4	0.1	11
12	1292.7	325.5	0.7	0.1	1256.9	126.5	1.3	10.1			0.1	0.1	1207.2	9.0	0.4	0.1	12
13	1292.9	327.3	0.7	0.1	1246.5	90.0	1.3	18.9			0.1	0.1	1207.6	9.4	0.4	0.1	13
14	1293.0	328.2	0.7	0.1	1241.0	72.7	1.3	10.1			0.1	0.1	1208.1	9.9	0.3	0.1	14
15	1293.1	329.1	0.7	0.1	1238.0	64.0	1.3	6.4			0.1	0.1	1208.6	10.4	0.3	0.1	15
16	1293.2	330.0	0.7	0.1	1239.3	67.8	1.4	0.1			0.1	0.1	1209.1	10.9	0.3	0.1	16
17	1293.4	331.9	0.7	0.1	1240.3	70.7	1.5	0.1			0.1	0.1	1209.6	11.4	0.3	0.1	17
18	1293.5	332.8	0.7	0.1	1235.5	57.0	1.5	7.9			0.1	0.1	1210.1	11.9	0.3	0.1	18
19	1293.6	333.7	0.7	0.1	1230.7	45.0	1.5	7.2			0.1	0.1	1210.5	12.4	0.3	0.1	19
20	1293.7	334.6	0.7	0.1	1223.0	29.0	1.5	10.4			0.1	0.1	1210.8	12.8	0.3	0.1	20
21	1293.8	335.6	0.7	0.1	1224.5	31.8	1.5	0.1			0.1	0.1	1211.0	13.0	0.3	0.1	21
22	1293.9	336.5	0.7	0.1	1225.9	34.6	1.5	0.1			0.1	0.1	1211.3	13.4	0.3	0.1	22
23	1294.0	337.4	0.7	0.1	1227.0	36.8	1.2	0.1			0.1	0.1	1211.7	13.8	0.3	0.1	23
24	1294.1	338.3	0.7	0.1	1227.9	38.7	1.1	0.1			0.1	0.1	1212.0	14.2	0.3	0.1	24
25	1294.2	339.3	0.7	0.1	1217.3	19.4	1.5	11.2			0.1	0.1	1212.3	14.6	0.3	0.1	25
26	1294.3	340.2	0.7	0.1	1219.1	22.1	1.4	0.1			0.1	0.1	1212.7	15.0	0.3	0.1	26
27	1294.3	340.2	0.7	0.1	1204.6	4.9	2.1	10.7			0.1	0.1	1213.0	15.4	0.3	0.1	27
28	1294.4	341.1	0.7	0.1	*1192.6	+	2.1	3.9			0.1	0.1	1213.3	15.8	0.3	0.1	28
29	1294.5	342.0	0.7	0.1	*1191.7	+	2.2	2.9	*1185.6	0.5	0.4	0.1	1213.5	16.0	0.3	0.1	29
30	1294.6	343.0	0.7	0.1	1205.7	5.8	2.2	0.1	*1187.7	1.0	0.4	0.1	1213.8	16.4	0.3	0.1	30
31					1208.8	8.6	2.3	0.1	*1192.9	2.0	0.5	0.1					31
TOTAL			22.1	3.0			39.0	207.6			4.1	7.4			10.3	3.0	
Inf. Ac. Ft.			43.8				77.3				8.1				20.4	954.5	
Outf. Ac. Ft.			6.0				41.8				14.7				6.0	1151.8	
Maximum Mean Daily Inflow			0.8				2.3				0.5				0.4	6.5	
Minimum Mean Daily Inflow			0.7				0.3				0.1				0.3	0.1	
Storage Change		+ 37.8				- 334				- 6.6				+ 14.4		197.2	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1294.9	feet	on	7/5/60	Storage	345.8	Acre Feet				
Min. W. S. Elev.	1192. ±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet				
Max. Peak Inf.	15.8	C.F.S. from	11:00 P.M.	on	2/1/60	to	12:00 MID.	on	2/1/60		
Max. Peak Outf.	26.8	C.F.S. from	7:50 A.M.	on	7/5/60	to	7:55 A.M.	on	7/6/60		

RECORDS COLLECTED BY

K.A. SHIPLEY	Dam Tender
D.W. BOWMAN	Hydrographer
	Hydrographer

COMPUTATIONS	ckd.	Date
Gage Hts. copied	RAP	GLW
Storage applied	RAP	GLW
Inf. & Outf. comp.	RAP	GLW

REMARKS
(INDICATES AVERAGE FOR PERIOD
* ESTIMATED GAGE HEIGHT, SLUICING OPERATIONS. ADDED 2.0 A.F. TO STORAGE TABLE VALUES THROUGH 9/30/60

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 1961

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 586.6 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of September 1958 Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1	1214.0	*14.7	0.3	0.1	1222.5	28.1	0.3	0.1	1257.1	127.3	1.0	0	1269.3	177.6	0.8	0	1
2	1214.3	15.1	0.3	0.1	1222.8	28.6	0.4	0.1	1257.8	129.9	1.0	0	1269.6	179.0	0.8	0	2
3	1214.5	15.4	0.3	0.1	1223.4	29.8	0.7	0.1	1258.4	132.2	0.9	0	1266.5	165.2	1.4	8.4	3
4	1214.8	15.8	0.3	0.1	1224.2	31.3	0.8	0.1	1259.0	134.5	0.9	0	1261.3	143.6	1.4	12.1	4
5	1215.0	16.1	0.3	0.1	1232.1	48.4	8.7	0.1	1259.4	136.1	0.8	0	1257.7	129.6	1.3	8.5	5
6	1215.0	16.1	0.3	0.1	1235.2	56.2	4.1	0.1	1259.8	137.6	0.9	0	1258.4	132.2	1.3	0	6
7	1215.4	16.7	0.3	0.1	1236.9	60.9	2.3	0	1260.3	139.6	0.9	0	1259.0	134.5	1.2	0	7
8	1215.6	16.9	0.3	0.1	1237.9	63.7	1.5	0	1260.8	141.6	0.9	0	1259.6	136.8	1.1	0	8
9	1215.9	17.4	0.3	0.1	1238.8	66.3	1.3	0	1261.2	143.3	0.9	0	1260.1	138.8	1.0	0	9
10	1216.2	17.8	0.3	0.1	1239.5	68.4	1.0	0	1261.6	144.8	0.9	0	1260.5	140.4	0.9	0	10
11	1216.4	18.1	0.3	0.1	1240.2	70.4	1.0	0	1262.1	146.6	0.9	0	1261.0	142.4	0.8	0	11
12	1216.8	18.7	0.3	0.1	1243.2	79.4	4.6	0	1262.5	148.4	0.9	0	1261.4	144.0	0.8	0	12
13	1217.0	19.0	0.3	0.1	1245.3	86.1	3.3	0	1262.9	150.1	0.9	0	1261.8	145.6	0.8	0	13
14	1217.3	19.4	0.3	0.1	1246.4	89.6	1.8	0	1263.2	151.3	0.9	0	1262.2	147.2	0.8	0	14
15	1217.6	19.9	0.3	0.1	1247.3	92.6	1.5	0	1263.6	153.0	0.9	0	1262.5	148.4	0.8	0	15
16	1217.9	20.4	0.3	0.1	1248.0	94.9	1.2	0	1264.0	154.6	0.8	0	1262.9	150.1	0.7	0	16
17	1218.2	20.8	0.3	0.1	1248.7	97.3	1.2	0	1264.4	156.3	0.8	0	1263.2	151.3	0.7	0	17
18	1218.5	21.3	0.3	0.1	1249.3	99.3	1.1	0	1264.8	158.0	0.8	0	1263.6	153.0	0.7	0	18
19	1218.8	21.8	0.3	0.1	1250.0	101.7	1.0	0	1265.2	159.6	0.8	0	1263.9	154.2	0.7	0	19
20	1219.1	22.3	0.3	0.1	1250.5	103.4	0.9	0	1265.5	160.9	0.8	0	1264.2	155.4	0.7	0	20
21	1219.4	22.7	0.3	0.1	1251.0	105.2	0.9	0	1265.9	162.6	0.7	0	1264.5	156.7	0.7	0	21
22	1219.7	23.2	0.3	0.1	1251.5	107.0	0.9	0	1266.3	164.3	0.7	0	1264.9	158.4	0.7	0	22
23	1220.0	23.7	0.3	0.1	1252.0	108.7	0.9	0	1266.6	165.6	0.7	0	1265.2	159.6	0.7	0	23
24	1220.3	24.2	0.3	0.1	1252.5	110.4	0.8	0	1266.9	167.0	0.7	0	1265.5	160.9	0.7	0	24
25	1220.6	24.7	0.3	0.1	1252.9	111.8	0.8	0	1267.2	168.3	0.7	0	1265.8	162.2	0.6	0	25
26	1220.8	25.1	0.3	0.1	1254.0	115.8	2.0	0	1267.5	169.6	0.7	0	1270.9	185.0	11.5	0	26
27	1221.1	25.6	0.4	0.1	1254.9	119.1	1.7	0	1267.8	170.9	0.7	0	1265.9	162.6	5.7	17.0	27
28	1221.4	26.1	0.4	0.1	1255.6	121.7	1.3	0	1268.1	172.2	0.7	0	1257.7	129.6	2.8	19.4	28
29	1221.7	26.7	0.4	0.1	1256.2	123.9	1.1	0	1268.3	173.2	0.7	0	1258.6	133.0	1.8	0.1	29
30	1222.0	27.2	0.4	0.1	1256.7	125.8	1.0	0	1268.6	174.5	0.6	0	1259.5	136.4	1.8	0.1	30
31	1222.3	27.7	0.4	0.1					1268.9	175.8	0.6	0	1260.2	139.2	1.5	0.1	31
TOTAL			9.8	3.1			50.1	0.6			25.2	0			47.2	65.7	
Inf. Ac. Ft.			19.4				99.4				50.0				93.6	262.4	
Outf. Ac. Ft.			6.1				1.2				0				130.3	131.6	
Maximum Mean Daily Inflow			0.4				8.7				1.0				11.5	11.5	
Minimum Mean Daily Inflow			0.3				0.3				0.6				0.6	0.3	
Storage Change		+133				+ 98.1				+ 50.0				- 36.6		+124.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1271.1	feet	on	4/3/61	Storage	186.0	Acre Feet				
Min. W. S. Elev.	1213.8	feet	on	10/1/60	Storage	14.4	Acre Feet				
Max. Peak Inf.	65.3	C.F.S. from	1:30 P.M.	on	1/26/61	to	2:00 P.M.	on	1/26/61		
Max. Peak Outf.	18.6	C.F.S. from	8:00 A.M.	on	6/21/61	to	2:00 P.M.	on	6/21/61		

RECORDS COLLECTED BY

K.A. SHIPLEY	Dam Tender
R.V. WOOD	Hydrographer
	Hydrographer

COMPUTATIONS	ckd.	Date
Gage Hts. copied	TS	RAP GLW
Storage applied	TS	RAP GLW
Inf. & Outf. comp.	TS	RAP GLW

REMARKS
(INDICATES AVERAGE FOR PERIOD
* RETURNED TO VALUES AS PER STORAGE RATING TABLE XIV WITHOUT ADJUSTMENT

760136N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 566.6 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of September 19 58 Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	1261.0	142.4	1.4	0.1	1260.6	140.8	1.0	0.1	1270.8	184.6	0.6	0.1	1260.1	138.8	0.6	0.1	1
2	1261.6	144.8	1.4	0.1	1261.0	142.4	1.0	0.1	1271.0	185.5	0.6	0.1	1260.3	139.6	0.6	0.1	2
3	1262.2	147.2	1.4	0.1	1261.3	143.6	0.9	0.1	1267.0	167.4	1.9	10.8	1260.5	140.4	0.6	0.1	3
4	1262.8	149.7	1.3	0.1	1261.8	145.6	0.9	0.1	1260.3	139.6	1.9	15.8	1260.8	141.6	0.6	0.1	4
5	1263.3	151.7	1.3	0.1	1262.2	147.2	0.9	0.1	1253.2	112.9	1.9	15.5	1261.1	142.8	0.6	0.1	5
6	1263.8	153.8	1.3	0.1	1262.6	148.9	0.9	0.1	1250.1	102.0	1.9	7.6	1261.4	144.0	0.6	0.1	6
7	1264.3	155.9	1.3	0.2	1262.9	150.1	0.8	0.1	1251.0	105.2	1.7	0.1	1261.7	145.2	0.6	0.1	7
8	1264.8	158.0	1.2	0.2	1263.3	151.7	0.8	0.1	1251.6	107.3	1.2	0.1	1261.9	146.0	0.5	0.1	8
9	1265.3	160.1	1.2	0.2	1263.6	153.0	0.8	0.1	1252.2	109.4	1.2	0.1	1262.1	146.8	0.5	0.1	9
10	1265.8	162.2	1.2	0.2	1263.9	154.2	0.8	0.1	1252.8	111.5	1.1	0.1	1262.3	147.6	0.5	0.1	10
11	1266.3	164.3	1.1	0.2	1264.2	155.4	0.8	0.1	1253.4	113.6	1.1	0.1	1262.5	148.4	0.5	0.1	11
12	1266.7	166.1	1.0	0.2	1264.5	156.7	0.7	0.1	1253.8	115.1	0.9	0.1	1262.6	148.9	0.5	0.1	12
13	1267.1	167.8	1.0	0.1	1264.8	158.0	0.7	0.1	1254.2	116.5	0.9	0.1	1262.8	149.7	0.5	0.1	13
14	1267.4	169.2	1.0	0.1	1265.1	159.2	0.7	0.1	1254.6	118.0	0.9	0.1	1263.0	150.5	0.5	0.1	14
15	1267.8	170.9	1.0	0.1	1265.7	161.7	1.3	0.1	1255.1	119.9	0.9	0.1	1263.1	150.9	0.5	0.1	15
16	1268.2	172.7	0.9	0.1	1266.1	163.4	1.0	0.1	1255.4	121.0	0.7	0.1	1263.3	151.7	0.5	0.1	16
17	1268.5	174.0	0.9	0.1	1266.4	164.8	0.8	0.1	1255.7	122.1	0.7	0.1	1263.5	152.6	0.5	0.1	17
18	1268.8	175.4	0.8	0.1	1266.7	166.1	0.8	0.1	1256.0	123.2	0.7	0.1	1263.7	153.4	0.5	0.1	18
19	1269.2	177.2	0.8	0.1	1267.0	167.4	0.8	0.1	1256.3	124.3	0.6	0.1	1263.9	154.2	0.5	0.1	19
20	1269.5	178.6	0.8	0.1	1267.3	168.7	0.7	0.1	1256.6	125.4	0.6	0.1	1264.1	155.0	0.5	0.1	20
21	1269.7	179.4	0.7	0.1	1267.5	169.6	0.7	0.1	1256.9	126.5	0.6	0.1	1264.3	155.9	0.5	0.1	21
22	1269.9	180.4	0.6	0.1	1267.9	171.4	0.7	0.1	1257.5	128.8	1.3	0.1	1264.5	156.7	0.5	0.1	22
23	1264.6	157.1	1.3	12.4	1268.1	172.2	0.7	0.1	1258.0	130.7	1.0	0.1	1264.7	157.5	0.5	0.1	23
24	1257.7	129.6	1.3	15.4	1268.4	173.6	0.7	0.1	1258.4	132.2	0.9	0.1	1264.9	158.4	0.5	0.1	24
25	1258.5	132.6	1.2	0.1	1268.9	175.8	1.3	0.1	1258.7	133.4	0.7	0.1	1265.1	159.2	0.5	0.1	25
26	1259.1	134.9	1.2	0.1	1269.2	177.2	0.8	0.1	1259.0	134.5	0.6	0.1	1265.3	160.1	0.5	0.1	26
27	1259.6	136.8	1.1	0.1	1269.5	178.6	0.8	0.1	1259.2	135.3	0.6	0.1	1265.4	160.5	0.5	0.1	27
28	1260.1	138.8	1.1	0.1	1269.8	179.9	0.8	0.1	1259.5	136.4	0.6	0.1	1265.6	161.3	0.5	0.1	28
29					1270.1	181.3	0.7	0.1	1259.7	137.2	0.5	0.1	1265.8	162.2	0.5	0.1	29
30					1270.3	182.2	0.7	0.1	1259.9	138.0	0.5	0.1	1266.0	163.0	0.5	0.1	30
31					1270.6	183.6	0.7	0.1					1266.2	163.9	0.5	0.1	31
TOTAL			30.8	31.0			25.7	3.1			29.3	52.3			16.2	3.1	
Inf. Ac. Ft.			61.1				51.0				58.1				32.1	464.7	
Outf. Ac. Ft.			61.5				6.1				103.7				6.1	315.0	
Maximum Mean Daily Inflow			1.4				1.3				1.9				0.6	11.5	
Minimum Mean Daily Inflow			0.6				0.7				0.5				0.5	0.3	
Storage Change		- 0.4				+ 44.8				- 45.6				+ 25.9		+ 149.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1271.1	feet on	4/3/61	Storage	186.0	Acre Feet			
Min. W. S. Elev.	1213.8	feet on	10/1/60	Storage	14.4	Acre Feet			
Max. Peak Inf.	65.3	C.F.S. from	1:30 P.M. on	1/26/61	to	2:00 P.M. on	1/26/61		
Max. Peak Outf.	18.6	C.F.S. from	8:00 A.M. on	6/21/61	to	2:00 P.M. on	6/21/61		
REMARKS	(INDICATES AVERAGE FOR PERIOD								

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
K.A. SHIPLEY	Dam Tender	Gage Hts. copied	TS RAP GLW	
R.V. WOOD	Hydrographer	Storage applied	TS RAP GLW	
	Hydrographer	Inf. & Outf. comp.	TS RAP GLW	

760136N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SANTA ANITA Dam

In Santa Anita Canyon for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 10.8 Square Miles. Capacity of Reservoir 566.6 Ac. Ft. at Spillway Elev. 1316.0 Ft. as of September 19 58 Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	1266.3	164.3	0.5	0.1	1250.6	103.8	0.4	0	1255.0	119.5	0.2	0	1257.3	128.0	0.1	0	1
2	1266.5	165.2	0.5	0.1	1250.9	104.8	0.4	0	1255.0	119.5	0.2	0	1257.3	128.0	0.1	0	2
3	1266.7	166.1	0.5	0.1	1251.1	105.6	0.4	0	1255.2	120.2	0.2	0	1257.4	128.4	0.1	0	3
4	1266.9	167.0	0.5	0.1	1251.4	106.6	0.4	0	1255.3	120.6	0.2	0	1257.4	128.4	0.1	0	4
5	1267.0	167.4	0.6	0.1	1251.6	107.3	0.3	0	1255.4	121.0	0.2	0	1257.5	128.8	0.1	0	5
6	1267.2	168.3	0.4	0.1	1251.8	108.0	0.3	0	1255.5	121.4	0.2	0	1257.6	129.2	0.1	0	6
7	1267.3	168.7	0.4	0.1	1251.9	108.4	0.3	0	1255.6	121.7	0.2	0	1257.6	129.2	0.1	0	7
8	1267.5	169.6	0.4	0.1	1252.1	109.0	0.3	0	1255.6	121.7	0.2	0	1257.6	129.2	0.1	0	8
9	1267.6	170.0	0.4	0.1	1252.2	109.4	0.3	0	1255.7	122.1	0.2	0	1257.7	129.6	0.1	0	9
10	1267.8	170.9	0.4	0.1	1252.4	110.1	0.3	0	1255.8	122.5	0.2	0	1257.8	129.9	0.1	0	10
11	1267.9	171.4	0.3	0.1	1252.6	110.8	0.3	0	1255.9	122.8	0.2	0	1257.8	129.9	0.1	0	11
12	1268.0	171.8	0.3	0.1	1252.8	111.5	0.3	0	1256.0	123.2	0.2	0	1257.9	130.3	0.1	0	12
13	1268.1	172.2	0.3	0.1	1252.9	111.8	0.3	0	1256.0	123.2	0.1	0	1257.9	130.3	0.1	0	13
14	1268.2	172.7	0.3	0.1	1253.1	112.6	0.3	0	1256.1	123.6	0.1	0	1258.0	130.7	0.1	0	14
15	1268.3	173.2	0.3	0.1	1253.2	112.9	0.3	0	1256.2	123.9	0.1	0	1258.0	130.7	0.1	0	15
16	1268.4	173.6	0.3	0.1	1253.3	113.3	0.2	0	1256.2	123.9	0.1	0	1258.1	131.1	0.1	0	16
17	1268.5	174.0	0.3	0.1	1253.4	113.6	0.2	0	1256.3	124.3	0.1	0	1258.2	131.5	0.1	0	17
18	1268.5	174.0	0.3	0.1	1253.5	114.0	0.2	0	1256.4	124.7	0.1	0	1258.2	131.5	0.1	0	18
19	1264.9	158.4	0.9	8.2	1253.7	114.7	0.2	0	1256.5	125.0	0.1	0	1258.3	131.8	0.1	0	19
20	1258.8	133.7	0.9	13.7	1253.8	115.1	0.2	0	1256.5	125.0	0.1	0	1258.3	131.8	0.1	0	20
21	1250.5	104.8	0.9	15.3	1253.9	115.4	0.2	0	1256.6	125.4	0.1	0	1258.4	132.2	0.1	0	21
22	1247.0	91.6	0.9	7.4	1254.0	115.8	0.2	0	1256.7	125.8	0.1	0	1258.4	132.2	0.1	0	22
23	1247.7	93.9	0.9	0	1254.1	116.2	0.2	0	1256.7	125.8	0.1	0	1258.5	132.6	0.1	0	23
24	1248.3	95.9	0.8	0	1254.2	116.5	0.2	0	1256.8	126.2	0.1	0	1258.6	133.0	0.1	0	24
25	1243.8	97.6	0.8	0	1254.3	116.9	0.2	0	1256.9	126.5	0.1	0	1258.6	133.0	0.1	0	25
26	1249.2	99.0	0.6	0	1254.4	117.3	0.2	0	1256.9	126.5	0.1	0	1258.7	133.4	0.1	0	26
27	1249.5	100.0	0.6	0	1254.5	117.6	0.2	0	1257.0	126.9	0.1	0	1258.8	133.7	0.2	0	27
28	1249.9	101.4	0.5	0	1254.6	118.0	0.2	0	1257.0	126.9	0.1	0	1258.9	134.1	0.2	0	28
29	1250.2	102.4	0.5	0	1254.7	118.4	0.2	0	1257.1	127.3	0.1	0	1258.9	134.1	0.2	0	29
30	1250.4	103.1	0.5	0	1254.8	118.8	0.2	0	1257.1	127.3	0.1	0	1259.0	134.5	0.2	0	30
31					1254.9	119.1	0.2	0	1257.2	127.7	0.1	0					31
TOTAL			15.7	46.4			8.1	0			4.3	0			3.4	0	
Inf. Ac. Ft.			31.1				16.1				8.5				6.7	527.1	
Outf. Ac. Ft.			92.0				0				0				0	407.0	
Maximum Mean Daily Inflow			0.9				0.4				0.2				0.2	11.5	
Minimum Mean Daily Inflow			0.3				0.2				0.1				0.1	0.1	
Storage Change		- 60.8				+ 16.0				+ 8.6				+ 6.8		+ 120.1	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1271.1	feet on	4/3/61	Storage	186.0	Acre Feet			
Min. W. S. Elev.	1213.8	feet on	10/1/60	Storage	14.4	Acre Feet			
Max. Peak Inf.	65.3	C.F.S. from	1:30 P.M. on	1/26/61	to	2:00 P.M. on	1/26/61		
Max. Peak Outf.	18.6	C.F.S. from	8:00 A.M. on	6/21/61	to	2:00 P.M. on	6/21/61		
REMARKS	(INDICATES AVERAGE FOR PERIOD								

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
K.A. SHIPLEY - R.E. SANDERS	Dam Tender	Gage Hts. copied	RAP GLW	
R.V. WOOD	Hydrographer	Storage applied	RAP GLW	
	Hydrographer	Inf. & Outf. comp.	RAP GLW	

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In ~~On~~ Sawpit Canyon for the Year Ending September 30, 19 60

Drainage Area 3.34 Square Miles. Capacity of Reservoir 289.2 Ac. Ft. at Spillway Elev. 1360.0 Ft. as of February 1959

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	October				November				December				January				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1268.2	3.2	0.1	0	1283.4	9.9	0.1	0	1293.0	17.6	0.1	0	1297.9	23.3	0.2	0	1
2	1268.8	3.4	0.1	0	1283.8	10.2	0.2	0	1293.3	17.9	0.2	0	1298.2	23.7	0.2	0	2
3	1269.5	3.6	0.1	0	1284.1	10.4	0.1	0	1293.5	18.1	0.1	0	1298.4	23.9	0.1	0	3
4	1270.3	3.9	0.2	0	1284.5	10.6	0.1	0	1293.7	18.3	0.1	0	1298.7	24.3	0.2	0	4
5	1270.9	4.1	0.1	0	1284.8	10.9	0.1	0	1293.9	18.5	0.1	0	1299.0	24.7	0.2	0	5
6	1271.6	4.4	0.1	0	1285.1	11.1	0.1	0	1294.1	18.7	0.1	0	1299.3	25.1	0.2	0	6
7	1272.3	4.7	0.2	0	1285.5	11.4	0.2	0	1294.3	18.9	0.1	0	1299.6	25.5	0.2	0	7
8	1273.0	4.9	0.1	0	1285.9	11.6	0.1	0	1294.6	19.3	0.2	0	1299.9	25.9	0.2	0	8
9	1273.6	5.2	0.1	0	1286.2	11.8	0.1	0	1294.8	19.5	0.1	0	1300.2	26.3	0.2	0	9
10	1274.1	5.4	0.1	0	1286.6	12.1	0.1	0	1295.0	19.7	0.1	0	1301.4	28.0	0.9	0	10
11	1274.6	5.6	0.1	0	1287.0	12.4	0.2	0	1295.2	19.9	0.1	0	1302.3	29.2	0.6	0	11
12	1275.2	5.8	0.1	0	1287.4	12.7	0.1	0	1295.4	20.2	0.1	0	1304.3	32.2	1.5	0	12
13	1275.7	6.0	0.1	0	1287.7	12.9	0.1	0	1295.6	20.4	0.1	0	1304.8	32.9	0.3	0	13
14	1276.2	6.3	0.2	0	1288.1	13.2	0.2	0	1292.5	17.1	0.1	1.8	1305.6	34.2	0.7	0	14
15	1276.7	6.5	0.1	0	1288.4	13.4	0.1	0	1293.0	17.6	0.3	0	1306.9	36.2	1.0	0	15
16	1277.1	6.7	0.1	0	1288.7	13.7	0.1	0	1293.4	18.0	0.2	0	1307.6	37.4	0.6	0	16
17	1277.6	6.9	0.1	0	1289.0	13.9	0.1	0	1293.7	18.3	0.2	0	1308.2	38.4	0.5	0	17
18	1278.1	7.1	0.1	0	1289.4	14.3	0.2	0	1294.0	18.6	0.1	0	1308.8	39.5	0.6	0	18
19	1278.5	7.3	0.1	0	1289.7	14.5	0.1	0	1294.3	18.9	0.2	0	1309.4	40.5	0.5	0	19
20	1279.0	7.6	0.1	0	1290.0	14.8	0.2	0	1294.6	19.3	0.2	0	1309.9	41.3	0.4	0	20
21	1279.4	7.8	0.1	0	1290.3	15.1	0.1	0	1294.8	19.5	0.1	0	1309.9	41.3	0.4	0.4	21
22	1279.8	7.9	0.1	0	1290.6	15.3	0.1	0	1295.2	19.9	0.2	0	1309.9	41.3	0.4	0.4	22
23	1280.2	8.1	0.1	0	1290.9	15.6	0.2	0	1295.5	20.3	0.2	0	1309.9	41.3	0.5	0.5	23
24	1280.6	8.4	0.1	0	1291.2	15.9	0.1	0	1295.8	20.7	0.2	0	1309.9	41.3	0.5	0.5	24
25	1281.0	8.6	0.1	0	1291.5	16.2	0.2	0	1296.1	21.0	0.1	0	1309.9	41.3	0.6	0.6	25
26	1281.3	8.7	0.1	0	1291.8	16.4	0.1	0	1296.3	21.3	0.2	0	1309.9	41.3	0.3	0.3	26
27	1281.7	8.9	0.1	0	1292.0	16.6	0.1	0	1296.5	21.5	0.1	0	1309.9	41.3	0.3	0.3	27
28	1282.1	9.2	0.1	0	1292.3	16.9	0.1	0	1296.8	21.9	0.2	0	1309.9	41.3	0.3	0.3	28
29	1282.4	9.3	0.1	0	1292.5	17.1	0.1	0	1297.0	22.1	0.1	0	1309.9	41.3	0.3	0.3	29
30	1282.7	9.5	0.1	0	1292.8	17.4	0.2	0	1297.3	22.5	0.2	0	1309.9	41.3	0.3	0.3	30
31	1283.1	9.7	0.1	0					1297.6	22.9	0.2	0	1309.9	41.3	0.3	0.3	31
TOTAL			3.4	0			3.9	0			4.6	1.8			13.5	4.2	
Inf. Ac. Ft.			6.7				7.7				9.1				26.8	5.0.3	
Outf. Ac. Ft.			0				0				3.6				8.3	11.9	
Maximum Mean Daily Inflow			0.2				0.2				0.3				1.5	1.5	
Minimum Mean Daily Inflow			0.1				0.1				0.1				0.1	0.1	
Storage Change		+ 6.7				+ 7.7				+ 5.5				+ 18.4		+ 38.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1311.5	feet	on	4/27/60	Storage	44.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1267.4	feet	on	10/1/59	Storage	3.0	Acre Feet	F.D. KELLY	Dam Tender	Gage Hts. copied	RAP	GLW
Max. Peak Inf.	69.5	C.F.S. from		7:15 P.M. on	4/27/60	to	7:30 P.M. on	4/27/60	J. HOLLERON	Hydrographer	Storage applied	RAP	GLW
Max. Peak Outf.	34.1	C.F.S. from		7:40 P.M. on	4/27/60	to	7:55 P.M. on	4/27/60		Hydrographer	Inf. & Outf. comp.	RAP	GLW

REMARKS

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In ~~On~~ Sawpit Canyon for the Year Ending September 30, 19 60

Drainage Area 3.34 Square Miles. Capacity of Reservoir 289.2 Ac. Ft. at Spillway Elev. 1360.0 Ft. as of February 19 59

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	February				March				April				May				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1310.2	41.8	1.8	1.5	1309.9	41.3	1.0	1.3	1309.9	41.3	0.4	0.4	1309.9	41.3	0.6	0.6	1
2	1309.9	41.3	0.9	1.2	1309.9	41.3	0.9	0.9	1309.9	41.3	0.4	0.4	1309.9	41.3	0.6	0.6	2
3	1309.9	41.3	0.6	0.6	1309.9	41.3	0.9	0.9	1309.9	41.3	0.3	0.3	1309.9	41.3	0.6	0.6	3
4	1309.9	41.3	0.5	0.5	1309.9	41.3	1.0	1.0	1309.9	41.3	0.3	0.3	1309.9	41.3	0.6	0.6	4
5	1309.9	41.3	0.5	0.5	1309.9	41.3	0.9	0.9	1309.9	41.3	0.3	0.3	1309.9	41.3	0.6	0.6	5
6	1309.9	41.3	0.5	0.5	1309.9	41.3	0.8	0.8	1309.9	41.3	0.3	0.3	1309.9	41.3	0.6	0.6	6
7	1309.9	41.3	0.5	0.5	1309.9	41.3	0.6	0.6	1309.9	41.3	0.3	0.3	1309.9	41.3	0.6	0.6	7
8	1310.0	41.5	1.7	1.6	1309.9	41.3	0.6	0.6	1309.9	41.3	0.3	0.3	1309.9	41.3	0.5	0.5	8
9	1309.9	41.3	1.3	1.4	1309.9	41.3	0.6	0.6	1309.9	41.3	0.3	0.3	1309.9	41.3	0.5	0.5	9
10	1310.0	41.5	1.1	1.0	1309.9	41.3	0.6	0.6	1309.9	41.3	0.3	0.3	1309.9	41.3	0.5	0.5	10
11	1309.9	41.3	0.7	0.8	1309.9	41.3	0.6	0.6	1309.9	41.3	0.2	0.2	1309.9	41.3	0.4	0.4	11
12	1309.9	41.3	0.5	0.5	1309.9	41.3	0.6	0.6	1309.9	41.3	0.2	0.2	1309.9	41.3	0.4	0.4	12
13	1309.8	41.2	0.4	0.5	1309.9	41.3	0.6	0.6	1309.9	41.3	0.2	0.2	1309.9	41.3	0.4	0.4	13
14	1309.8	41.2	0.5	0.5	1309.9	41.3	0.6	0.6	1309.9	41.3	0.2	0.2	1309.9	41.3	0.4	0.4	14
15	1309.8	41.2	0.5	0.5	1309.9	41.3	0.6	0.6	1309.9	41.3	0.2	0.2	1309.9	41.3	0.4	0.4	15
16	1309.8	41.2	0.4	0.4	1309.9	41.3	0.6	0.6	1309.9	41.3	0.2	0.2	1309.9	41.3	0.4	0.4	16
17	1309.8	41.2	0.4	0.4	1309.9	41.3	0.6	0.6	1309.9	41.3	0.2	0.2	1309.9	41.3	0.4	0.4	17
18	1309.8	41.2	0.4	0.4	1309.9	41.3	0.6	0.6	1309.9	41.3	0.2	0.2	1309.9	41.3	0.4	0.4	18
19	1309.8	41.2	0.4	0.4	1309.9	41.3	0.6	0.6	1309.9	41.3	0.2	0.2	1309.9	41.3	0.4	0.4	19
20	1309.8	41.2	0.4	0.4	1309.9	41.3	0.5	0.5	1309.9	41.3	0.2	0.2	1309.9	41.3	0.3	0.3	20
21	1309.8	41.2	0.3	0.3	1309.9	41.3	0.5	0.5	1309.9	41.3	0.2	0.2	1309.9	41.3	0.3	0.3	21
22	1309.8	41.2	0.3	0.3	1309.9	41.3	0.4	0.4	1309.9	41.3	0.2	0.2	1309.9	41.3	0.3	0.3	22
23	1309.8	41.2	0.3	0.3	1309.9	41.3	0.4	0.4	1309.9	41.3	0.2	0.2	1309.9	41.3	0.3	0.3	23
24	1309.9	41.3	0.4	0.3	1309.9	41.3	0.4	0.4	1309.9	41.3	0.4	0.4	1309.9	41.3	0.3	0.3	24
25	1309.9	41.3	0.3	0.3	1309.9	41.3	0.4	0.4	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	25
26	1309.9	41.3	0.3	0.3	1309.9	41.3	0.4	0.4	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	26
27	1309.9	41.3	0.3	0.3	1309.9	41.3	0.5	0.5	1310.4	42.2	4.8	4.3	1309.9	41.3	0.2	0.2	27
28	1309.9	41.3	0.3	0.3	1309.9	41.3	0.7	0.7	1309.9	41.3	1.0	1.5	1309.9	41.3	0.2	0.2	28
29	1310.2	41.8	2.9	2.6	1309.9	41.3	0.6	0.6	1309.9	41.3	0.6	0.6	1309.9	41.3	0.2	0.2	29
30					1309.9	41.3	0.4	0.4	1309.9	41.3	0.6	0.6	1309.9	41.3	0.2	0.2	30
31					1309.9	41.3	0.4	0.4					1309.9	41.3	0.1	0.1	31
TOTAL			19.4	19.1			18.9	19.2			13.6	13.6			12.1	12.1	
Inf. Ac. Ft.			38.5				37.5				27.0				24.0	17.3	
Outf. Ac. Ft.			37.9				38.1				27.0				24.0	13.9	
Maximum Mean Daily Inflow			2.9				1.0				4.8				0.6	4.8	
Minimum Mean Daily Inflow			0.3				0.4				0.2				0.1	0.1	
Storage Change		+ 0.5				- 0.5				0				0		+ 3.8.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1311.5	feet	on	4/27/60	Storage	44.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1267.4	feet	on	10/1/59	Storage	3.0	Acre Feet	F.D. KELLY	Dam Tender	Gage Hts. copied	RAP	GLW
Max. Peak Inf.	69.5	C.F.S. from		7:15 P.M. on	4/27/60	to	7:30 P.M. on	4/27/60	J. HOLLERON	Hydrographer	Storage applied	RAP	GLW
Max. Peak Outf.	34.1	C.F.S. from		7:40 P.M. on	4/27/60	to	7:55 P.M. on	7/27/60	D.W. BOWMAN	Hydrographer	Inf. & Outf. comp.	RAP	GLW

REMARKS

76D136N-58B Gib 12-57

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1960

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 3.34 Square Miles. Capacity of Reservoir 299.2 Ac. Ft. at Spillway Elev. 1360.0 Ft. as of February 1959 Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413	+	+	1
2	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			2
3	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			3
4	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			4
5	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			5
6	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			6
7	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			7
8	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			8
9	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			9
10	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			10
11	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			11
12	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			12
13	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			13
14	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			14
15	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			15
16	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			16
17	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			17
18	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			18
19	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			19
20	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			20
21	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			21
22	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			22
23	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			23
24	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			24
25	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			25
26	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			26
27	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			27
28	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			28
29	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413			29
30	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	1309.9	413	+	+	30
31					1309.9	413	0.1	0.1	1309.9	413	0.1	0.1					31
TOTAL			6.0	6.0			3.1	3.1			3.1	3.1			+	+	
Inf. Ac. Ft.			11.9				6.1				6.1				+	201.4	
Outf. Ac. Ft.			11.9				6.1				6.1				±	163.0	
Maximum Mean Daily Inflow			0.2				0.1				0.1				+	4.8	
Minimum Mean Daily Inflow			0.2				0.1				0.1				+	+	
Storage Change	0				0				0				0			+383	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1311.5	feet	on	4/27/60	Storage	44.1	Acre Feet		
Min. W. S. Elev.	1267.4	feet	on	10/1/59	Storage	3.0	Acre Feet		
Max. Peak Inf.	69.5	C.F.S. from	7:15 P.M.	on	4/27/60	to	7:30 P.M.	on	4/27/60
Max. Peak Outf.	34.1	C.F.S. from	7:40 P.M.	on	4/27/60	to	7:55 P.M.	on	4/27/60

REMARKS

RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
F.D. KELLY	Dam Tender	Gage Hts. copied	RAP GLW
D.W. BOWMAN	Hydrographer	Storage applied	RAP GLW
	Hydrographer	Inf. & Outf. comp.	RAP GLW

76D136N-58B Gib 12-57

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1961

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 3.34 Square Miles. Capacity of Reservoir 299.2 Ac. Ft. at Spillway Elev. 1360.0 Ft. as of September 1959 Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1	1309.9	413	0	0	1309.9	413	0.1	0.1	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1
2	1309.9	413	0	0	1309.9	413	0.1	0.1	1309.9	413	0.3	0.3	1309.9	413	+	+	2
3	1309.9	413	0	0	1309.9	413	0.3	0.3	1309.9	413	0.3	0.3	1309.9	413			3
4	1309.9	413	+	+	1309.9	413	0.1	0.1	1309.9	413	0.3	0.3	1309.9	413			4
5	1309.9	413	0	0	1310.0	415	0.7	0.6	1309.9	413	0.3	0.3	1309.9	413			5
6	1309.9	413	0	0	1309.9	413	0.3	0.4	1309.9	413	0.3	0.3	1309.9	413			6
7	1309.9	413	0	0	1309.9	413	0.2	0.2	1309.9	413	0.2	0.2	1309.9	413			7
8	1309.9	413	0	0	1309.9	413	0.2	0.2	1309.9	413	0.2	0.2	1309.9	413			8
9	1309.9	413	+	+	1309.9	413	0.2	0.2	1309.9	413	0.2	0.2	1309.9	413	+	+	9
10	1309.9	413	0.2	0.2	1309.9	413	0.2	0.2	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	10
11	1309.9	413	0.1	0.1	1309.9	413	0.2	0.2	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	11
12	1309.9	413	0.1	0.1	1310.0	415	1.1	1.0	1309.9	413	0.2	0.2	1309.9	413	+	+	12
13	1309.9	413	+	+	1309.9	413	0.5	0.6	1309.9	413	0.2	0.2	1309.9	413			13
14	1309.9	413			1309.9	413	0.4	0.4	1309.9	413	0.2	0.2	1309.9	413			14
15	1309.9	413			1309.9	413	0.4	0.4	1309.9	413	0.2	0.2	1309.9	413			15
16	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.2	0.2	1309.9	413	+	+	16
17	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	17
18	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	18
19	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	19
20	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	20
21	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.1	0.1	1309.9	413	0.1	0.1	21
22	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.1	0.1	1309.9	413	0.2	0.2	22
23	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.1	0.1	1309.9	413	0.2	0.2	23
24	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.1	0.1	1309.9	413	0.2	0.2	24
25	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.2	0.2	1309.9	413	0.2	0.2	25
26	1309.9	413			1309.9	413	0.4	0.4	1309.9	413	0.2	0.2	1309.9	413	1.7	1.7	26
27	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.2	0.2	1309.9	413	0.3	0.3	27
28	1309.9	413			1309.9	413	0.2	0.2	1309.9	413	0.1	0.1	1309.9	413	0.3	0.3	28
29	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.1	0.1	1309.9	413	0.2	0.2	29
30	1309.9	413			1309.9	413	0.3	0.3	1309.9	413	0.1	0.1	1309.9	413	0.3	0.3	30
31	1309.9	413	+	+					1309.9	413	0.1	0.1	1309.9	413	0.3	0.3	31
TOTAL			0.4	0.4			9.5	9.5			5.9	5.9			4.7	4.7	
Inf. Ac. Ft.			0.8				18.8				11.7				9.3	40.6	
Outf. Ac. Ft.			0.8				18.8				11.7				9.3	40.6	
Maximum Mean Daily Inflow			0.2				1.1				0.3				1.7	1.7	
Minimum Mean Daily Inflow			0				0.1				0.1				+	0	
Storage Change	0				0				0				0			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1310.3	feet	on	VARIOUS DAYS	Storage	42.0	Acre Feet		
Min. W. S. Elev.	1281.0	feet	on	9/30/61	Storage	8.6	Acre Feet		
Max. Peak Inf.	11.9	C.F.S. from	5:30 P.M.	on	11/5/60	to	6:00 P.M.	on	11/5/60
Max. Peak Outf.	4.5	C.F.S. from	1:30 P.M.	on	1/26/61	to	2:00 P.M.	on	1/26/61

REMARKS

RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
F.D. KELLY	Dam Tender	Gage Hts. copied	RAP GLW
R.V. WOOD	Hydrographer	Storage applied	RAP GLW
	Hydrographer	Inf. & Outf. comp.	RAP GLW

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1961

Continuous Water Stage Recorder Au

Drainage Area 3.34 Square Miles. Capacity of Reservoir 289.2 Ac. Ft. at Spillway Elev. 1360.0 Ft. as of September, 1959 Gage Heights Read daily

Day	February				March				April				May				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1309.9	41.3	0.3	0.3	1309.9	41.3	0.3	0.3	1309.9	41.3	0.3	0.3	1309.9	41.3	0.3	0.3	1
2	1309.9	41.3	0.3	0.3	1309.9	41.3	0.3	0.3	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	2
3	1309.9	41.3	0.3	0.3	1309.9	41.3	0.3	0.3	1309.9	41.3	0.1	0.1	1309.9	41.3	0.2	0.2	3
4	1309.9	41.3	0.3	0.3	1309.9	41.3	0.3	0.3	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	4
5	1309.9	41.3	0.3	0.3	1309.9	41.3	0.2	0.2	1309.9	41.3	+	+	1309.9	41.3	0.2	0.2	5
6	1309.9	41.3	0.3	0.3	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	6
7	1309.9	41.3	0.4	0.4	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	7
8	1309.9	41.3	0.3	0.3	1309.9	41.3	0.2	0.2	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	8
9	1309.9	41.3	0.3	0.3	1309.9	41.3	0.1	0.1	1309.9	41.3	+	+	1309.9	41.3	0.2	0.2	9
10	1309.9	41.3	0.3	0.3	1309.9	41.3	+	+	1309.9	41.3	0.2	0.2	1309.9	41.3	0.1	0.1	10
11	1309.9	41.3	0.3	0.3	1309.9	41.3			1309.9	41.3	+	+	1309.9	41.3	0.1	0.1	11
12	1309.9	41.3	0.3	0.3	1309.9	41.3			1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	12
13	1309.9	41.3	0.3	0.3	1309.9	41.3	+	+	1309.9	41.3	0.2	0.2	1309.9	41.3	0.1	0.1	13
14	1309.9	41.3	0.5	0.5	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	14
15	1309.9	41.3	0.3	0.3	1309.9	41.3	0.4	0.4	1309.9	41.3	0.1	0.1	1309.9	41.3	0.2	0.2	15
16	1309.9	41.3	0.4	0.4	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	1309.9	41.3	0.1	0.1	16
17	1309.9	41.3	0.4	0.4	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	1309.9	41.3	0.1	0.1	17
18	1309.9	41.3	0.5	0.5	1309.9	41.3	0.3	0.3	1309.9	41.3	0.3	0.3	1309.9	41.3	0.1	0.1	18
19	1309.9	41.3	0.3	0.3	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1309.9	41.3	+	+	19
20	1309.9	41.3	0.2	0.2	1309.9	41.3	0.1	0.1	1309.9	41.3	0.2	0.2	1309.9	41.3	+	+	20
21	1309.9	41.3	0.3	0.3	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1309.9	41.3	+	+	21
22	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	1309.9	41.3	0.1	0.1	1309.9	41.3	0.2	0.2	22
23	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	1309.9	41.3	+	+	23
24	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	1309.9	41.3	+	+	24
25	1309.9	41.3	0.2	0.2	1309.9	41.3	0.3	0.3	1309.9	41.3	0.2	0.2	1309.9	41.3	0.1	0.1	25
26	1309.9	41.3	0.3	0.3	1309.9	41.3	0.3	0.3	1309.9	41.3	0.2	0.2	1309.9	41.3	+	+	26
27	1309.9	41.3	0.3	0.3	1309.9	41.3	0.3	0.3	1309.9	41.3	0.1	0.1	1309.9	41.3			27
28	1309.9	41.3	0.3	0.3	1309.9	41.3	0.5	0.5	1309.9	41.3	+	+	1309.9	41.3			28
29					1309.9	41.3	0.2	0.2	1309.9	41.3	0.1	0.1	1309.9	41.3			29
30					1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	1309.9	41.3	+	+	30
31					1309.9	41.3	0.3	0.3					1309.9	41.3		+	31
TOTAL			8.6	8.6			6.3	6.3			4.4	4.4			3.1	3.1	
Inf. Ac. Ft.			17.1				12.5				8.7				6.1	8.5.0	
Outf. Ac. Ft.			17.1				12.5				8.7				6.1	8.5.0	
Maximum Mean Daily Inflow			0.5				0.5				0.3				0.3	1.7	
Minimum Mean Daily Inflow			0.2				+				+				+	0	
Storage Change	0				0				0				0			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1310.3	feet	on VARIOUS DAYS	Storage	42.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1281.0	feet	on 9/30/61	Storage	8.6	Acre Feet	F.D. KELLY	Dam Tender	Gage Hts. copied	RAP HRW GLW
Max. Peak Inf.	11.9	C.F.S. from	5:30 P.M. on 11/5/60	to	6:00 P.M. on	11/5/60	R.V. WOOD	Hydrographer	Storage applied	RAP HRW GLW
Max. Peak Outf.	4.5	C.F.S. from	1:30 P.M. on 1/21/61	to	2:00 P.M. on	1/26/61		Hydrographer	Inf. & Outf. comp.	RAP HRW GLW

REMARKS

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAWPIT Dam

In Sawpit Canyon for the Year Ending September 30, 1961

Continuous Water Stage Recorder Au

Drainage Area 3.34 Square Miles. Capacity of Reservoir 289.2 Ac. Ft. at Spillway Elev. 1360.0 Ft. as of September, 1959 Gage Heights Read daily

Day	June				July				August				September				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1309.9	41.3	0.4	0.4	1309.9	41.3	0.1	0.1	1309.9	41.3	+	+	1309.9	41.3	+	+	1
2	1309.9	41.3	0.2	0.2	1309.9	41.3	0.1	0.1	1309.9	41.3	+	+	1309.9	41.3			2
3	1309.9	41.3	0.2	0.2	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1309.9	41.3			3
4	1309.9	41.3	0.2	0.2	1309.9	41.3	0.3	0.3	1309.9	41.3	+	+	1309.9	41.3	+	+	4
5	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	1309.9	41.3			1309.9	41.3	0.1	0.1	5
6	1309.9	41.3	+	+	1309.9	41.3	0.1	0.1	1309.9	41.3			1309.9	41.3	+	+	6
7	1309.9	41.3	+	+	1309.9	41.3	+	+	1309.9	41.3	+	+	1309.9	41.3			7
8	1309.9	41.3	0.1	0.1	1309.9	41.3	+	+	1309.9	41.3	0.1	0.1	1309.9	41.3			8
9	1309.9	41.3	0.1	0.1	1309.9	41.3	+	+	1309.9	41.3	+	+	1309.9	41.3			9
10	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1309.9	41.3	+	+	1309.9	41.3		+	10
11	1309.9	41.3	0.1	0.1	1309.9	41.3	0.2	0.2	1309.9	41.3	+	+	1309.6	40.8	+	0.3	11
12	1309.9	41.3	0.1	0.1	1309.9	41.3	+	+	1309.9	41.3	0.1	0.1	1308.8	39.5	0.1	0.7	12
13	1309.9	41.3	0.2	0.2	1309.9	41.3	+	+	1309.9	41.3	0.1	0.1	1307.7	37.6	0.2	1.2	13
14	1309.9	41.3	0.2	0.2	1309.9	41.3	+	+	1309.9	41.3	0.1	0.1	1306.8	36.1	0.2	0.9	14
15	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1309.9	41.3	0.2	0.2	1305.8	34.5	0.2	1.0	15
16	1309.9	41.3	0.1	0.1	1309.9	41.3	0.2	0.2	1309.9	41.3	+	+	1304.9	33.0	0.1	0.9	16
17	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1309.9	41.3			1303.9	31.6	0.2	0.9	17
18	1309.9	41.3	0.2	0.2	1309.9	41.3	0.2	0.2	1309.9	41.3			1302.9	30.1	0.2	0.9	18
19	1309.9	41.3	+	+	1309.9	41.3	+	+	1309.9	41.3			1301.5	28.1	+	1.1	19
20	1309.9	41.3	0.1	0.1	1309.9	41.3	+	+	1309.9	41.3	+	+	1300.0	26.0	0.4	1.4	20
21	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1298.5	24.0	0.4	1.4	21
22	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1296.9	22.0	0.4	1.4	22
23	1309.9	41.3	0.2	0.2	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1295.3	20.1	0.3	1.3	23
24	1309.9	41.3	0.1	0.1	1309.9	41.3	0.1	0.1	1309.9	41.3	+	+	1293.6	18.2	0.4	1.3	24
25	1309.9	41.3	0.1	0.1	1309.9	41.3	0.3	0.3	1309.9	41.3			1291.8	16.4	0.3	1.3	25
26	1309.9	41.3	0.2	0.2	1309.9	41.3	+	+	1309.9	41.3			1290.0	14.8	0.5	1.3	26
27	1309.9	41.3	0.3	0.3	1309.9	41.3			1309.9	41.3			1288.0	13.1	0.5	1.3	27
28	1309.9	41.3	0.1	0.1	1309.9	41.3			1309.9	41.3	+	+	1285.8	11.6	0.4	1.2	28
29	1309.9	41.3	0.1	0.1	1309.9	41.3			1309.9	41.3	0.1	0.1	1283.4	9.9	0.3	1.1	29
30	1309.9	41.3	0.1	0.1	1309.9	41.3			1309.9	41.3	+	+	1281.0	8.6	0.4	1.1	30
31					1309.9	41.3	+	+	1309.9	41.3	+	+					31
TOTAL			4.1	4.1			2.5	2.5			1.1	1.1			5.6	22.1	
Inf. Ac. Ft.			8.1				5.0				2.2				11.1	111.4	
Outf. Ac. Ft.			8.1				5.0				2.2				4.3.8	144.1	
Maximum Mean Daily Inflow			0.4				0.3				0.2				0.5	1.7	
Minimum Mean Daily Inflow			+				+				+				+	0	
Storage Change	0				0				0				-32.7			-32.7	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1310.3	feet	on VARIOUS DAYS	Storage	42.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1281.0	feet	on 9/30/61	Storage	8.6	Acre Feet	F.D. KELLY	Dam Tender	Gage Hts. copied	RAP GLW
Max. Peak Inf.	11.9	C.F.S. from	5:30 P.M. on 11/5/60	to	6:00 P.M. on	11/5/60	R.V. WOOD	Hydrographer	Storage applied	RAP GLW
Max. Peak Outf.	4.5	C.F.S. from	1:30 P.M. on 1/26/61	to	2:00 P.M. on	1/26/61		Hydrographer	Inf. & Outf. comp.	RAP GLW

REMARKS

760 138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of COGSWELL Dam

In San Gabriel Canyon - West Fork for the Year Ending September 30, 1960

~~On~~

Continuous Water Stage Recorder Stevens A-35

Drainage Area 39.2 Square Miles. Capacity of Reservoir 10445.6 Ac. Ft. at Spillway Elev. 2385 Ft. as of October, 1958 Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1	2243.9	304.6	0.5	5.3	2225.3	108.3	0.6	0.1	2229.4	135.3	0.5	0.1	2237.4	208.0	1.3	0.1	1
2	2243.2	293.0	0.5	5.3	2225.4	108.9	0.6	0.1	2229.5	136.0	0.6	0.1	2237.6	210.4	1.3	0.1	2
3	2242.6	283.2	0.5	5.1	2225.6	110.1	0.6	0.1	2229.7	137.4	0.6	0.1	2237.8	212.9	1.3	0.1	3
4	2242.0	273.5	0.6	5.1	2225.8	111.4	0.6	0.1	2229.8	138.2	0.6	0.1	2237.9	214.1	1.3	0.1	4
5	2241.3	262.4	0.6	5.1	2225.9	112.0	0.6	0.1	2229.9	138.9	0.7	0.1	2238.1	216.6	1.3	0.1	5
6	2240.7	253.1	0.6	5.1	2226.1	113.2	0.7	0.1	2230.1	140.4	0.7	0.1	2238.3	219.2	1.2	0.1	6
7	2240.0	242.4	0.6	5.3	2226.3	114.5	0.7	0.1	2230.2	141.1	0.7	0.1	2238.5	221.8	1.2	0.1	7
8	2239.3	232.5	0.6	5.1	2226.4	115.1	0.7	0.1	2230.4	142.6	0.7	0.1	2238.7	224.4	1.2	0.1	8
9	2238.6	223.1	0.6	5.1	2226.6	116.4	0.7	0.1	2230.7	144.8	1.2	0.1	2238.9	227.0	1.5	0.1	9
10	2237.9	214.1	0.6	5.1	2226.7	117.0	0.7	0.1	2230.9	146.4	1.0	0.1	2242.4	280.0	26.9	0.2	10
11	2237.2	205.5	0.6	5.1	2226.9	118.3	0.7	0.1	2231.0	147.1	1.0	0.1	2243.6	299.7	10.2	0.3	11
12	2236.4	196.6	0.6	5.1	2227.0	118.9	0.6	0.1	2231.2	148.7	1.0	0.1	2245.0	323.2	12.3	0.4	12
13	2235.5	187.2	0.6	4.9	2227.2	120.2	0.6	0.1	2231.4	150.3	1.0	0.1	2245.7	335.3	6.5	0.4	13
14	2234.6	178.3	0.6	4.7	2227.3	120.9	0.6	0.1	2231.6	151.9	1.0	0.1	2246.3	345.8	5.8	0.4	14
15	2233.7	169.8	0.6	4.7	2227.4	121.5	0.6	0.1	2231.8	153.5	1.0	0.1	2246.9	356.3	5.7	0.4	15
16	2232.7	161.0	0.6	4.7	2227.6	122.9	0.6	0.1	2232.0	155.1	1.0	0.1	2247.4	365.3	5.0	0.4	16
17	2231.7	152.7	0.6	4.7	2227.7	123.5	0.6	0.1	2232.2	156.8	1.0	0.1	2247.8	372.5	4.0	0.4	17
18	2230.7	144.6	0.6	4.6	2227.8	124.2	0.6	0.1	2232.4	158.5	1.0	0.1	2248.1	377.9	3.2	0.4	18
19	2229.6	136.7	0.6	4.6	2228.0	125.5	0.6	0.1	2232.6	160.1	1.1	0.1	2248.4	383.5	3.2	0.4	19
20	2228.6	129.6	0.6	4.6	2228.1	126.2	0.6	0.1	2232.8	161.8	1.1	0.1	2248.7	389.0	3.2	0.4	20
21	2227.5	122.2	0.6	4.4	2228.2	126.9	0.6	0.1	2233.2	165.3	1.1	0.1	2249.0	394.5	3.2	0.4	21
22	2226.4	115.1	0.6	4.4	2228.4	128.3	0.6	0.1	2233.4	167.1	1.1	0.1	2249.4	402.0	4.2	0.4	22
23	2225.2	107.6	0.6	4.4	2228.5	129.0	0.6	0.1	2233.7	169.8	1.1	0.1	2249.8	409.5	4.3	0.5	23
24	2224.0	100.5	0.6	4.2	2228.6	129.6	0.6	0.1	2235.1	183.1	6.9	0.1	2250.2	417.2	4.5	0.5	24
25	2223.8	99.4	0.6	1.5	2228.8	131.0	0.6	0.1	2235.8	190.2	3.6	0.1	2250.8	428.8	6.4	0.6	25
26	2224.0	100.5	0.6	0.1	2228.9	131.7	0.6	0.1	2236.1	193.3	1.8	0.1	2251.4	440.7	6.6	0.6	26
27	2224.3	102.3	0.6	0.1	2229.0	132.4	0.6	0.1	2236.4	196.6	1.7	0.1	2252.1	454.6	7.7	0.6	27
28	2224.5	103.4	0.6	0.1	2229.1	133.1	0.5	0.1	2236.7	199.8	1.6	0.1	2252.9	471.0	9.0	0.6	28
29	2224.7	104.6	0.6	0.1	2229.2	133.8	0.5	0.1	2236.9	202.0	1.5	0.1	2253.3	479.4	9.9	5.6	29
30	2224.9	105.8	0.6	0.1	2229.3	134.6	0.5	0.1	2237.1	204.3	1.4	0.1	2253.9	492.1	7.1	0.6	30
31	2225.1	107.0	0.6	0.1					2237.3	206.8	1.3	0.1	2254.5	505.2	7.2	0.6	31
TOTAL			18.3	118.8			18.3	3.0			40.6	3.1			167.7	16.0	
Inf. Ac. Ft.			36.3				36.3				80.5				332.6	48.5.7	
Outf. Ac. Ft.			235.6 + (8.5)				60 + (2.8)				62 + (2.2)				317 +(2.6)	279.5 +(16.1)	
Maximum Mean Daily Inflow			0.6				0.7				6.9				26.9	26.9	
Minimum Mean Daily Inflow			0.5				0.5				0.5				1.2	0.5	
Storage Change		+207.8				+27.6				+72.2				+298.4		+190.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2283.4	feet on	VARIOUS DAYS	Storage	1396.9	Acre Feet		
Min. W. S. Elev.	2217.6	feet on	9/30/60	Storage	70.1	Acre Feet		
Max. Peak Inf.	65.4	C. F. S. from	2:00 P.M. on	1/10/60	to	2:30 P.M. on	1/10/60	
Max. Peak Outf.	16.1	C. F. S. from	8:00 A.M. on	7/1/60	to	12:15 P.M. on	7/1/60	

REMARKS [ ] INDICATES AVERAGE FOR PERIOD

( ) INDICATES EVAPORATION LOSSES

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
E.C. WINDER	Dam Tender	Gage Hts. copied	RAP	TS
E.K. DE VORE	Hydrographer	Storage applied	RAP	TS
	Hydrographer	Inf. & Outf. comp.	RAP	TS

760 138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of COGSWELL Dam

In San Gabriel Canyon - West Fork for the Year Ending September 30, 1960

~~On~~

Continuous Water Stage Recorder Stevens A-35

Drainage Area 39.2 Square Miles. Capacity of Reservoir 10445.6 Ac. Ft. at Spillway Elev. 2385 Ft. as of October, 1958 Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	2255.7	531.9	14.1	0.6	2270.2	922.0	13.4	0.8	2277.8	1181.3	3.0	0.9	2282.0	1340.9	4.7	0.9	1
2	2257.3	569.0	19.3	0.6	2270.6	934.7	8.5	0.8	2278.0	1188.6	3.0	0.9	2282.1	1344.9	4.2	0.9	2
3	2258.3	592.9	12.7	0.6	2271.1	950.7	7.5	0.8	2278.1	1192.3	3.0	0.9	2282.2	1348.9	3.9	0.9	3
4	2259.0	609.9	9.3	0.7	2271.5	963.7	7.0	0.8	2278.2	1196.0	3.0	0.9	2282.4	1356.8	3.7	0.9	4
5	2259.6	624.8	8.3	0.7	2271.8	973.5	6.8	0.8	2278.3	1199.7	3.0	0.9	2282.5	1360.8	3.6	0.9	5
6	2260.2	639.9	8.3	0.7	2272.2	986.7	6.7	0.8	2278.4	1203.4	3.0	0.9	2282.7	1368.8	3.6	0.9	6
7	2260.7	652.6	7.2	0.7	2272.5	996.6	6.4	0.8	2278.5	1207.1	2.9	0.9	2282.8	1372.7	3.5	0.9	7
8	2261.3	668.0	8.5	0.7	2272.8	1006.6	6.3	0.8	2278.6	1210.8	2.9	0.9	2282.9	1376.7	3.5	1.2	8
9	2262.0	686.2	9.9	0.7	2273.1	1016.7	6.2	0.8	2278.7	1214.5	2.9	0.9	2282.9	1376.7	3.5	1.2	9
10	2262.5	699.5	7.5	0.7	2273.4	1026.9	6.2	0.8	2278.8	1218.2	2.9	0.9	2283.0	1380.7	3.5	1.2	10
11	2263.0	712.8	7.3	0.7	2273.7	1037.0	5.7	0.8	2278.9	1221.9	2.9	0.8	2283.0	1380.7	3.4	1.4	11
12	2263.4	723.7	7.1	0.7	2274.0	1047.2	5.6	0.8	2279.0	1225.6	2.8	0.8	2283.1	1384.8	3.3	1.5	12
13	2263.9	737.3	6.9	0.6	2274.2	1054.1	5.5	0.8	2279.1	1229.4	2.8	0.8	2283.1	1384.8	3.2	1.6	13
14	2264.3	748.3	6.6	0.6	2274.5	1064.4	5.4	0.8	2279.1	1229.4	2.8	0.8	2283.1	1384.8	3.0	1.6	14
15	2264.7	759.4	6.4	0.6	2274.7	1071.2	5.3	0.8	2279.2	1233.1	2.8	0.8	2283.2	1388.8	2.9	1.6	15
16	2265.0	767.7	6.1	0.6	2274.9	1078.1	4.8	0.8	2279.2	1233.1	2.8	0.8	2283.2	1388.8	2.7	1.5	16
17	2265.4	779.0	5.8	0.6	2275.1	1085.0	4.7	0.8	2279.3	1236.9	2.8	0.8	2283.3	1392.9	2.5	1.5	17
18	2265.7	787.4	5.6	0.6	2275.3	1092.0	4.7	0.8	2279.3	1236.9	2.8	0.9	2283.3	1392.9	2.3	1.5	18
19	2266.1	798.8	5.4	0.6	2275.5	1099.0	4.6	0.8	2279.4	1240.7	2.8	0.9	2283.4	1396.9	2.2	1.5	19
20	2266.4	807.5	5.2	0.6	2275.7	1106.0	4.6	0.8	2279.4	1240.7	2.8	0.9	2283.4	1396.9	2.1	1.5	20
21	2266.7	816.1	5.0	0.6	2275.9	1113.0	4.1	0.8	2279.5	1244.4	2.8	0.9	2283.4	1396.9	2.1	1.5	21
22	2266.9	821.9	4.9	0.6	2276.1	1120.1	4.1	0.8	2279.6	1248.2	3.1	0.9	2283.4	1396.9	2.0	1.5	22
23	2267.2	830.7	4.7	0.7	2276.2	1123.6	4.1	0.8	2279.7	1252.0	3.1	0.9	2283.4	1396.9	2.0	1.4	23
24	2267.5	839.6	4.6	0.7	2276.4	1130.8	4.1	0.8	2279.8	1255.8	3.1	0.9	2283.4	1396.9	2.0	1.4	24
25	2267.7	845.4	4.5	0.7	2276.6	1137.9	4.1	0.8	2279.8	1255.8	1.2	0.9	2283.4	1396.9	1.9	1.4	25
26	2268.0	854.3	4.4	0.7	2276.7	1145.1	4.1	0.8	2279.9	1259.5	3.1	0.9	2283.4	1396.9	1.9	1.4	26
27	2268.2	860.4	4.3	0.7	2276.9	1148.6	4.0	0.9	2280.8	1294.0	18.5	0.9	2283.4	1396.9	1.9	1.4	27
28	2268.6	872.5	6.9	0.7	2277.2	1159.5	6.5	0.9	2281.4	1317.4	12.8	0.9	2283.4	1396.9	1.8	1.4	28
29	2269.4	897.0	13.0	0.7	2277.4	1166.8	4.9	0.9	2281.6	1325.2	5.3	0.9	2283.4	1396.9	1.7	1.4	29
30					2277.6	1174.0	4.9	0.9	2281.8	1333.1	5.2	0.9	2283.4	1396.9	1.6	1.4	30
31					2277.7	1177.7	3.0	0.9					2283.4	1396.9	1.5	1.4	31
TOTAL			219.8	19.0			173.8	25.3			115.9	26.3			85.7	40.7	
Inf. Ac. Ft.			436.0				344.7				229.9				170	166.3	
Outf. Ac. Ft.			377 + (6.5)				502 + (13.9)				522 + (22.4)				807 +(25.4)	500.3+(84.3	
Maximum Mean Daily Inflow			19.3				13.4				18.5				4.7	26.9	
Minimum Mean Daily Inflow			4.3				3.0				1.2				1.5	0.5	
Storage Change		+391.8				+280.7				+155.4				+63.8		+1082.1	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2283.4	feet on	VARIOUS DAYS	Storage	1396.9	Acre Feet		
Min. W. S. Elev.	2217.6	feet on	9/30/60	Storage	70.1	Acre Feet		
Max. Peak Inf.	65.4	C. F. S. from	2:00 P.M. on	1/10/60	to	2:30 P.M. on	1/10/60	
Max. Peak Outf.	16.1	C. F. S. from	8:00 A.M. on	7/1/60	to	12:15 P.M. on	7/1/60	

REMARKS [ ] INDICATES AVERAGE FOR PERIOD

( ) INDICATES EVAPORATION LOSSES

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
E.C. WINDER	Dam Tender	Gage Hts. copied	RAP	TS
E.K. DE VORE	Hydrographer	Storage applied	RAP	TS
	Hydrographer	Inf. & Outf. comp.	RAP	TS

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of COGSWELL Dam

In San Gabriel Canyon - West Fork for the Year Ending September 30, 1960

Continuous Water Stage Recorder Stevens A-35

Drainage Area 39.2 Square Miles. Capacity of Reservoir 10445.6 Ac. Ft. at Spillway Elev. 2385. Ft. as of October 1958 Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	2283.4	1396.9	1.4	1.4	2281.7	1329.1	1.2	9.2	2261.2	665.4	0.6	12.0	2231.1	147.9	0.5	2.7	1
2	2283.4	1396.9	1.4	1.5	2281.1	1305.6	1.3	12.0	2260.3	642.4	0.6	11.0	2230.6	144.1	0.5	2.7	2
3	2283.4	1396.9	1.3	1.5	2280.6	1286.3	1.4	12.0	2259.4	619.9	0.6	11.0	2229.9	138.9	0.5	2.7	3
4	2283.4	1396.9	1.2	1.6	2280.0	1263.3	1.7	12.0	2258.6	600.2	0.6	11.0	2229.4	135.3	0.6	2.7	4
5	2283.3	1392.9	1.2	1.7	2279.4	1240.7	2.2	12.0	2257.7	578.5	0.6	11.0	2228.8	131.0	0.6	2.7	5
6	2283.3	1392.9	1.2	1.7	2278.9	1221.9	3.1	13.0	2256.8	557.3	0.6	11.0	2228.2	126.9	0.8	2.7	6
7	2283.2	1388.8	1.2	1.7	2278.3	1199.7	2.9	13.0	2255.9	536.4	0.6	11.0	2227.6	122.9	0.8	2.7	7
8	2283.2	1388.8	1.2	1.6	2277.7	1177.7	2.8	13.0	2255.0	516.1	0.6	11.0	2227.0	118.9	0.8	2.7	8
9	2283.2	1388.8	1.2	1.6	2277.2	1159.5	2.6	12.0	2254.1	496.4	0.6	11.0	2226.4	115.1	0.8	2.7	9
10	2283.1	1384.8	1.2	1.6	2276.6	1137.9	2.3	12.0	2253.1	475.1	0.6	11.0	2225.8	111.4	0.9	2.7	10
11	2283.1	1384.8	1.2	1.6	2276.0	1116.5	2.2	12.0	2252.1	454.6	0.5	11.0	2225.2	107.6	0.9	2.8	11
12	2283.1	1384.8	1.2	1.5	2275.4	1095.5	2.1	12.0	2251.2	436.7	0.5	9.7	2224.6	104.0	0.9	2.7	12
13	2283.0	1380.7	1.2	1.5	2274.8	1074.6	2.1	12.0	2250.2	417.2	0.5	9.9	2223.9	100.0	0.9	2.7	13
14	2283.0	1380.7	1.2	1.5	2274.2	1054.1	2.0	12.0	2249.1	396.4	0.5	9.9	2223.3	96.6	0.9	2.7	14
15	2282.9	1376.7	1.2	1.4	2273.5	1030.2	2.0	13.0	2248.1	377.9	0.5	9.9	2222.6	92.9	0.9	2.7	15
16	2282.9	1376.7	1.2	1.4	2272.8	1006.6	2.0	13.0	2247.0	358.1	0.5	10.0	2221.9	89.2	0.9	2.7	16
17	2282.8	1372.7	1.2	1.4	2272.2	986.7	1.9	12.0	2245.9	338.8	0.5	10.0	2221.3	86.3	0.9	2.7	17
18	2282.8	1372.7	1.2	1.4	2271.5	963.7	1.9	12.0	2244.9	321.5	0.5	10.0	2220.7	83.4	0.9	2.5	18
19	2282.7	1368.8	1.2	1.4	2270.8	941.0	1.9	12.0	2243.7	301.3	0.5	9.9	2220.0	80.1	0.9	2.5	19
20	2282.7	1368.8	1.2	1.5	2270.1	918.8	1.8	12.0	2242.5	281.6	0.5	9.9	2219.2	76.7	0.9	2.3	20
21	2282.6	1364.8	1.2	1.5	2269.4	897.0	1.8	12.0	2241.2	260.9	0.5	9.9	2218.4	73.3	0.9	2.3	21
22	2282.6	1364.8	1.2	1.5	2268.7	875.5	1.8	12.0	2240.2	245.5	0.5	7.0	2218.1	72.1	0.9	1.7	22
23	2282.5	1360.8	1.2	1.5	2268.0	854.3	1.7	12.0	2239.3	232.5	0.5	6.0	2218.0	71.7	0.9	0.9	23
24	2282.5	1360.8	1.2	1.5	2267.3	833.6	1.7	12.0	2238.4	220.5	0.5	6.0	2217.9	71.3	0.9	0.9	24
25	2282.4	1356.8	1.2	1.5	2266.6	813.2	1.7	12.0	2237.4	208.0	0.5	6.0	2217.8	70.9	0.9	0.9	25
26	2282.3	1352.8	1.2	1.5	2265.8	790.3	1.6	12.0	2236.4	196.6	0.5	6.0	2217.8	70.9	0.9	0.8	26
27	2282.3	1352.8	1.2	1.5	2265.0	767.7	1.6	12.0	2235.3	185.1	0.5	5.8	2217.7	70.5	0.9	0.8	27
28	2282.2	1348.9	1.2	1.4	2264.3	748.3	1.5	12.0	2234.3	175.4	0.5	5.8	2217.7	70.5	0.8	0.7	28
29	2282.1	1344.9	1.2	1.4	2263.5	726.4	1.3	12.0	2233.1	164.4	0.5	5.6	2217.8	70.9	0.8	0.6	29
30	2282.1	1344.9	1.2	1.4	2262.8	707.5	1.1	12.0	2232.3	157.6	0.5	4.2	2217.6	70.1	0.8	0.9	30
31					2262.0	686.2	0.9	12.0	2231.8	153.5	0.5	2.7					31
TOTAL			36.5	45.2			58.1	374.2			16.5	276.2			24.5	63.8	
Inf. Ac. Ft.			72.4				115.2				32.7				48.6	193.2	
Outf. Ac. Ft.			89.7	+(34.7)			74.2	+(31.7)			54.8	+(17.7)			126.5	+(5.4)	200.6
Maximum Mean Daily Inflow			1.4				3.1				0.6				0.9	26.9	
Minimum Mean Daily Inflow			1.2				0.9				0.5				0.5	0.5	
Storage Change		-52.0				-658.7				-532.7				-83.4		-244.7	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2283.4	feet	on	VARIOUS DAYS	Storage	1396.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	2217.6	feet	on	9/30/60	Storage	70.1	Acre Feet	E.C. WINDER - J.C. BARR	Dam Tender	Gage Hts. copied	RAP	GLW
Max. Peak Inf.	65.4	C. F. S. from	2:00 P.M.	on	1/10/60	to	2:30 P.M.	on	1/10/60	E.K. DE VORE	Hydrographer	Storage applied	RAP	GLW
Max. Peak Outf.	16.1	C. F. S. from	8:00 A.M.	on	7/1/60	to	12:15 P.M.	on	7/1/60		Hydrographer	Inf. & Outf. comp.	RAP	GLW

REMARKS [ ] INDICATES AVERAGE FOR PERIOD
( ) INDICATES EVAPORATION LOSSES

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of COGSWELL Dam

In San Gabriel Canyon-West Fork for the Year Ending September 30, 1961

Continuous Water Stage Recorder Stevens A-35

Drainage Area 39.2 Square Miles. Capacity of Reservoir 10,445.6 Ac. Ft. at Spillway Elev. 2385.0 Ft. as of October 1960 Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1	2217.1	682	0.6	1.4	2217.2	686	0.7	0.1	2233.1	164.4	1.4	0.1	2240.6	251.6	2.0	0.3	1
2	2216.8	671	0.6	1.4	2217.5	698	0.7	0.1	2233.7	169.8	2.8	0.1	2240.8	254.6	2.0	0.3	2
3	2216.3	652	0.6	1.3	2218.3	729	1.7	0.1	2234.1	173.5	2.0	0.1	2241.0	257.7	2.0	0.3	3
4	2216.0	641	0.6	1.0	2218.6	742	0.7	0.1	2234.5	177.3	2.0	0.1	2241.2	260.9	2.0	0.4	4
5	2215.7	630	0.6	1.0	2222.2	908	8.5	0.1	2234.7	179.2	1.5	0.1	2241.4	264.0	2.0	0.4	5
6	2215.5	624	0.5	1.0	2225.0	1064	8.1	0.1	2235.0	182.1	1.5	0.1	2241.6	267.2	2.1	0.4	6
7	2215.4	620	0.5	0.8	2225.3	1083	1.0	0.1	2235.3	185.1	1.5	0.1	2241.8	270.3	2.1	0.4	7
8	2215.2	613	0.5	0.8	2225.4	1089	0.4	0.1	2235.6	188.2	1.5	0.1	2242.1	275.1	2.1	0.4	8
9	2215.2	613	1.0	0.9	2225.5	1095	0.4	0.1	2235.8	190.2	1.5	0.1	2242.3	278.4	2.1	0.4	9
10	2215.1	610	0.8	0.9	2225.6	1101	0.4	0.1	2236.1	193.3	1.5	0.1	2242.4	280.0	2.1	0.4	10
11	2215.1	610	0.8	0.6	2225.7	1107	0.4	0.1	2236.4	196.6	1.5	0.1	2242.1	275.1	2.1	4.3	11
12	2215.4	620	0.8	0.4	2227.0	1189	4.3	0.1	2236.6	198.7	1.5	0.1	2242.2	276.7	2.1	1.3	12
13	2215.3	616	0.8	0.8	2228.1	1262	3.8	0.1	2236.8	200.9	1.6	0.2	2242.3	278.4	2.1	1.3	13
14	2215.1	610	0.8	1.2	2228.3	1276	0.9	0.1	2237.0	203.1	1.6	0.2	2242.4	280.0	2.1	1.2	14
15	2214.9	603	0.8	0.9	2228.5	1290	0.8	0.1	2237.3	206.8	1.6	0.2	2242.6	283.2	2.0	1.2	15
16	2214.8	599	0.8	0.8	2228.7	1303	0.7	0.1	2237.5	209.2	1.7	0.3	2242.7	284.8	2.0	1.2	16
17	2214.8	599	0.8	0.8	2228.8	1310	0.7	0.1	2237.7	211.6	1.7	0.3	2242.7	284.8	2.0	1.6	17
18	2214.8	599	0.8	0.8	2229.0	1324	0.7	0.1	2237.9	214.1	1.7	0.4	2242.7	284.8	2.0	2.2	18
19	2215.0	606	0.8	0.6	2229.1	1331	0.7	0.1	2238.1	216.6	1.7	0.4	2242.6	283.2	2.0	2.2	19
20	2215.1	610	0.8	0.5	2229.3	1346	0.7	0.1	2238.3	219.2	1.7	0.4	2242.6	283.2	2.0	2.2	20
21	2215.3	616	0.8	0.4	2229.4	1353	0.7	0.1	2238.5	221.8	1.7	0.4	2242.5	281.6	2.0	2.2	21
22	2215.5	624	0.8	0.3	2229.6	1367	0.7	0.1	2238.6	223.1	1.7	0.4	2242.4	280.0	2.0	2.2	22
23	2215.8	634	0.8	0.3	2229.7	1374	0.7	0.1	2238.8	225.7	1.7	0.4	2242.4	280.0	2.0	2.2	23
24	2216.0	641	0.8	0.3	2229.8	1382	0.6	0.1	2239.0	228.3	1.7	0.4	2242.3	278.4	2.0	2.2	24
25	2214.6	593	0.8	2.9	2230.0	1396	0.6	0.1	2239.2	231.1	1.7	0.4	2242.3	278.4	2.0	2.5	25
26	2214.9	603	0.7	0.5	2231.1	1479	4.3	0.1	2239.4	233.9	1.8	0.4	2246.2	344.0	35.5	2.5	26
27	2215.3	616	0.7	0.1	2231.7	1527	2.5	0.1	2239.6	236.8	1.8	0.4	2247.1	359.9	10.9	2.7	27
28	2215.8	634	0.7	0.1	2232.1	1559	1.7	0.1	2239.8	239.6	1.8	0.4	2247.4	365.3	5.5	2.7	28
29	2216.2	648	0.7	0.1	2232.5	1593	1.7	0.1	2240.0	242.4	1.8	0.3	2247.7	370.7	5.4	2.7	29
30	2216.5	660	0.7	0.1	2232.8	1618	1.6	0.1	2240.2	245.5	1.8	0.3	2247.9	374.3	4.6	2.7	30
31	2216.9	674	0.7	0.1					2240.4	248.5	1.8	0.3	2248.2	379.8	4.1	1.3	31
TOTAL			22.5	23.1			51.4	3.0			52.6	7.7			116.9	48.1	
Inf. Ac. Ft.			44.6				102.0				104.7				231.9	483.2	
Outf. Ac. Ft.			45.8	+(1.6)			60.	+(1.6)			153.	+(2.8)			954.	+(52.2)	1625.+(112.8)
Maximum Mean Daily Inflow			1.0				8.5				2.8				35.5	35.5	
Minimum Mean Daily Inflow			0.5				0.4				1.4				2.0	0.4	
Storage Change		-2.7				+94.4				+86.7				+1313		+309.7	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2258.3	feet	on	VARIOUS DAYS	Storage	592.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	2214.5	feet	on	10/25/60	Storage	59.0	Acre Feet	J.C. BARR	Dam Tender	Gage Hts. copied	RAP	GLW
Max. Peak Inf.	116.	C. F. S. from	3:30 P.M.	on	1/26/61	to	4:00 P.M.	on	1/25/61	E.K. DE VORE	Hydrographer	Storage applied	RAP	GLW
Max. Peak Outf.	11.6	C. F. S. from	9:35 A.M.	on	10/25/60	to	11:30 A.M.	on	10/25/60		Hydrographer	Inf. & Outf. comp.	RAP	GLW

REMARKS [ ] INDICATES AVERAGE FOR PERIOD
( ) INDICATES EVAPORATION LOSSES

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of COGSWELL Dam

In San Gabriel Canyon - West Fork for the Year Ending September 30, 1961

Continuous Water Stage Recorder Stevens A-35

Drainage Area 39.2 Square Miles. Capacity of Reservoir 10,145.6 Ac. Ft. at Spillway Elev. 2385.0 Ft. as of October, 1956 Gage Heights Ready daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	2248.5	385.3	3.4	0.5	2251.7	446.6	2.5	5.6	2256.4	548.0	1.9	0.5	2258.2	590.5	1.3	0.9	1
2	2248.9	392.7	3.4	0.5	2251.6	444.6	2.4	4.0	2256.5	550.3	1.9	0.5	2258.2	590.5	1.3	0.9	2
3	2249.2	398.3	3.4	0.5	2251.8	448.6	2.4	0.5	2256.6	552.6	1.9	0.5	2258.3	592.9	1.3	0.9	3
4	2249.5	403.9	3.4	0.5	2252.0	452.6	2.4	0.5	2256.7	554.9	1.9	0.5	2258.3	592.9	1.2	0.9	4
5	2249.8	409.5	3.4	0.5	2252.1	454.6	2.4	0.5	2256.8	557.3	1.8	0.5	2258.3	592.9	1.2	0.9	5
6	2250.1	415.2	3.4	0.6	2252.3	458.7	2.4	0.5	2256.9	559.6	1.8	0.6	2258.3	592.9	1.2	0.9	6
7	2250.4	421.1	3.4	0.6	2252.5	462.8	2.4	0.5	2257.0	561.9	1.8	0.6	2258.3	592.9	1.2	0.9	7
8	2250.6	424.9	3.4	0.6	2252.7	466.9	2.3	0.5	2257.1	564.3	1.8	0.6	2258.3	592.9	1.2	0.9	8
9	2250.9	430.8	3.4	0.6	2252.8	468.9	2.3	0.5	2257.2	566.6	1.8	0.6	2258.3	592.9	1.2	0.8	9
10	2251.1	434.7	3.4	0.6	2253.0	473.0	2.3	0.5	2257.2	566.6	1.7	0.6	2258.3	592.9	1.2	0.8	10
11	2251.4	440.7	3.4	0.6	2253.1	475.1	2.3	0.5	2257.3	569.0	1.7	0.6	2258.3	592.9	1.0	0.8	11
12	2251.7	446.6	3.4	0.6	2253.3	479.4	2.3	0.5	2257.4	571.4	1.7	0.6	2258.3	592.9	1.0	0.8	12
13	2251.9	450.6	3.3	0.6	2253.4	481.5	2.3	0.5	2257.5	573.8	1.7	0.6	2258.3	592.9	1.0	0.8	13
14	2252.2	456.7	3.3	0.6	2253.6	485.7	2.3	0.5	2257.5	573.8	1.7	0.6	2258.3	592.9	1.0	0.8	14
15	2252.4	460.8	3.3	0.6	2254.0	494.2	4.9	0.5	2257.6	576.1	1.7	0.6	2258.2	590.5	0.9	0.8	15
16	2252.7	466.9	3.3	0.6	2254.1	496.4	2.2	0.5	2257.6	576.1	1.5	0.6	2258.2	590.5	0.9	0.8	16
17	2252.9	471.0	3.3	0.6	2254.3	500.8	2.2	0.5	2257.7	578.5	1.5	0.6	2258.2	590.5	0.9	0.8	17
18	2253.2	477.2	3.3	0.6	2254.5	505.2	2.2	0.5	2257.7	578.5	1.5	0.6	2258.2	590.5	0.9	0.8	18
19	2253.4	481.5	3.3	0.6	2254.6	507.3	2.2	0.5	2257.8	580.9	1.5	0.6	2258.2	590.5	0.9	0.8	19
20	2253.5	483.6	2.6	1.7	2254.7	509.5	2.2	0.4	2257.8	580.9	1.5	0.7	2258.2	590.5	0.9	0.8	20
21	2253.5	483.6	2.6	2.8	2254.9	513.9	2.2	0.4	2257.9	583.2	1.5	0.8	2258.2	590.5	0.9	0.8	21
22	2253.4	481.5	2.6	2.7	2255.0	516.1	2.2	0.4	2258.0	585.6	2.1	0.8	2258.2	590.5	0.9	0.9	22
23	2253.4	481.5	2.6	2.7	2255.2	520.6	2.2	0.4	2258.0	585.6	1.4	0.8	2258.2	590.5	0.9	0.9	23
24	2253.3	479.4	2.6	3.7	2255.3	522.9	2.2	0.5	2258.1	588.0	1.4	0.8	2258.1	588.0	0.9	0.9	24
25	2253.0	473.0	2.6	5.3	2255.5	527.4	3.0	0.6	2258.1	588.0	1.4	0.8	2258.1	588.0	0.9	0.9	25
26	2252.7	466.9	2.5	5.3	2255.6	529.7	2.2	0.6	2258.2	590.5	1.4	0.8	2258.1	588.0	0.9	0.9	26
27	2252.4	460.8	2.5	5.6	2255.8	534.2	2.2	0.5	2258.2	590.5	1.4	0.8	2258.1	588.0	0.9	0.9	27
28	2252.1	454.6	2.5	5.6	2255.9	536.4	2.2	0.5	2258.2	590.5	1.4	0.8	2258.1	588.0	0.9	0.9	28
29					2256.1	541.0	2.2	0.5	2258.2	590.5	1.4	0.8	2258.0	585.6	0.9	0.9	29
30					2256.2	543.3	2.2	0.5	2258.2	590.5	1.3	0.8	2258.0	585.6	0.9	0.9	30
31					2256.3	545.7	2.1	0.5							0.9	0.8	31
TOTAL			87.0	46.3			73.8	23.9			49.0	19.6			31.6	26.5	
Inf. Ac. Ft.			172.6				146.4				97.2				62.7	52.1	
Outf. Ac. Ft.			91.8	+ (5.0)			47.4	+ (7.9)			38.9	+ (13.5)		52.6	+ (15.1)	39.2	+ (5.3)
Maximum Mean Daily Inflow			3.4				4.9				2.1				1.3	3.5	
Minimum Mean Daily Inflow			2.5				2.1				1.3				0.9	0.4	
Storage Change		+ 74.8				+ 91.1				+ 44.8				- 4.9		+ 51.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2258.3	feet on	VARIOUS DAYS	Storage	592.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	2214.5	feet on	10/25/60	Storage	59.0	Acre Feet	J.C. BARR	Dam Tender	Gage Hts. copied	RAP GLW
Max. Peak Inf.	116.	C.F.S. from	3:30 P.M. on	1/26/61	to 4:00 P.M. on	1/26/61	E.K. DE VORE	Hydrographer	Storage applied	RAP GLW
Max. Peak Outf.	11.6	C.F.S. from	9:35 A.M. on	10/25/60	to 11:30 A.M. on	10/25/60		Hydrographer	Inf. & Outf. comp.	RAP GLW

REMARKS (INDICATES AVERAGE FOR PERIOD
( ) INDICATES EVAPORATION LOSSES

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of COGSWELL Dam

In San Gabriel Canyon - West Fork for the Year Ending September 30, 1961

Continuous Water Stage Recorder Stevens A-35

Drainage Area 39.2 Square Miles. Capacity of Reservoir 10,145.6 Ac. Ft. at Spillway Elev. 2385.0 Ft. as of October, 1956 Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	2258.0	585.6	0.9	0.8	2257.0	561.9	0.7	0.9	2255.6	529.7	0.6	0.7	2254.1	496.4	0.5	0.7	1
2	2258.0	585.6	0.9	0.8	2257.0	561.9	0.7	0.9	2255.6	529.7	0.6	0.7	2254.0	494.2	0.5	0.8	2
3	2258.0	585.6	0.8	0.8	2256.9	559.6	0.7	0.8	2255.5	527.4	0.6	0.7	2254.0	494.2	0.5	0.8	3
4	2258.0	585.6	0.8	0.8	2256.9	559.6	0.7	0.8	2255.5	527.4	0.5	0.8	2253.9	492.1	0.5	0.8	4
5	2258.0	585.6	0.8	0.8	2256.8	557.3	0.7	0.8	2255.5	527.4	0.5	0.8	2253.9	492.1	0.5	0.7	5
6	2257.9	583.2	0.8	0.8	2256.8	557.3	0.7	0.8	2255.4	525.1	0.5	0.8	2253.8	490.0	0.5	0.8	6
7	2257.9	583.2	0.8	0.8	2256.7	554.9	0.7	0.8	2255.4	525.1	0.5	0.7	2253.7	487.8	0.4	0.7	7
8	2257.9	583.2	0.8	0.9	2256.7	554.9	0.7	0.8	2255.4	525.1	0.5	0.7	2253.7	487.8	0.4	0.7	8
9	2257.9	583.2	0.6	0.9	2256.6	552.6	0.7	0.8	2255.3	522.9	0.5	0.7	2253.6	485.7	0.4	0.7	9
10	2257.9	583.2	0.6	0.9	2256.6	552.6	0.7	0.8	2255.3	522.9	0.5	0.7	2253.6	485.7	0.4	0.7	10
11	2257.8	580.9	0.8	0.9	2256.6	552.6	0.7	0.8	2255.2	520.6	0.5	0.7	2253.5	483.6	0.4	0.7	11
12	2257.8	580.9	0.8	0.8	2256.5	550.3	0.7	0.8	2255.2	520.6	0.5	0.6	2253.5	483.6	0.4	0.7	12
13	2257.8	580.9	0.8	0.8	2256.5	550.3	0.6	0.8	2255.1	518.4	0.5	0.6	2253.4	481.5	0.4	0.7	13
14	2257.7	578.5	0.8	0.8	2256.5	550.3	0.6	0.7	2255.0	516.1	0.5	0.6	2253.4	481.5	0.4	0.7	14
15	2257.7	578.5	0.8	0.7	2256.4	548.0	0.6	0.7	2255.0	516.1	0.5	0.6	2253.4	481.5	0.4	0.7	15
16	2257.6	576.1	0.8	0.7	2256.4	548.0	0.6	0.6	2254.9	513.9	0.5	0.6	2253.3	479.4	0.4	0.7	16
17	2257.6	576.1	0.8	0.8	2256.3	545.7	0.6	0.7	2254.9	513.9	0.5	0.6	2253.3	479.4	0.4	0.7	17
18	2257.5	573.8	0.8	0.8	2256.3	545.7	0.6	0.7	2254.8	511.7	0.5	0.7	2253.2	477.2	0.4	0.7	18
19	2257.5	573.8	0.8	0.7	2256.2	543.3	0.6	0.7	2254.8	511.7	0.5	0.7	2253.2	477.2	0.4	0.7	19
20	2257.5	573.8	0.8	0.8	2256.2	543.3	0.6	0.7	2254.7	509.5	0.5	0.7	2253.1	475.1	0.4	0.7	20
21	2257.4	571.4	0.8	0.8	2256.2	543.3	0.6	0.8	2254.7	509.5	0.5	0.6	2253.1	475.1	0.4	0.7	21
22	2257.4	571.4	0.8	0.8	2256.1	541.0	0.6	0.8	2254.6	507.3	0.5	0.6	2253.1	475.1	0.4	0.8	22
23	2257.3	569.0	0.8	0.9	2256.1	541.0	0.6	0.8	2254.6	507.3	0.5	0.7	2253.0	473.0	0.4	0.7	23
24	2257.3	569.0	0.8	0.9	2256.0	538.7	0.6	0.7	2254.5	505.2	0.5	0.7	2253.0	473.0	0.4	0.6	24
25	2257.3	569.0	0.8	0.9	2256.0	538.7	0.6	0.6	2254.5	505.2	0.5	0.8	2252.9	471.0	0.4	0.6	25
26	2257.2	566.6	0.8	0.9	2255.9	536.4	0.6	0.6	2254.4	503.0	0.5	0.8	2252.9	471.0	0.4	0.7	26
27	2257.2	566.6	0.8	0.9	2255.9	536.4	0.6	0.7	2254.4	503.0	0.5	0.7	2252.9	471.0	0.4	0.6	27
28	2257.1	564.3	0.8	0.9	2255.8	534.2	0.6	0.7	2254.3	500.8	0.5	0.7	2252.8	468.9	0.4	0.5	28
29	2257.1	564.3	0.8	0.9	2255.8	534.2	0.6	0.7	2254.3	500.8	0.5	0.7	2252.7	466.9	0.4	0.6	29
30	2257.0	561.9	0.8	0.8	2255.7	531.9	0.6	0.7	2254.2	498.6	0.5	0.7	2252.7	466.9	0.4	0.6	30
31					2255.7	531.9	0.6	0.7	2254.2	498.6	0.5	0.7					31
TOTAL			24.2	24.8			19.8	23.2			15.8	21.4			12.6	20.8	
Inf. Ac. Ft.			48.0				39.3				31.3				25.0	110.7	
Outf. Ac. Ft.			49.2	+ (22.4)			46.0	+ (23.2)			42.4	+ (22.2)		41.3	+ (15.5)	57.2	+ (37.0)
Maximum Mean Daily Inflow			0.9				0.7				0.6				0.5	3.5	
Minimum Mean Daily Inflow			0.8				0.6				0.5				0.4	0.4	
Storage Change		- 23.7				- 3.0				- 33.3				- 31.7		+ 39.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	2258.3	feet on	VARIOUS DAYS	Storage	592.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	2214.5	feet on	10/25/60	Storage	59.0	Acre Feet	J.C. BARR	Dam Tender	Gage Hts. copied	RAP GLW
Max. Peak Inf.	116.	C.F.S. from	3:30 P.M. on	1/26/61	to 4:00 P.M. on	1/26/61	E.K. DE VORE	Hydrographer	Storage applied	RAP GLW
Max. Peak Outf.	11.6	C.F.S. from	9:35 A.M. on	10/25/60	to 11:30 P.M. on	10/25/60		Hydrographer	Inf. & Outf. comp.	RAP GLW

REMARKS (INDICATES AVERAGE FOR PERIOD
( ) INDICATES EVAPORATION LOSSES

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam

In ~~On~~ San Gabriel Canyon for the Year Ending September 30, 19 60

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 44614 Ac. Ft. at Spillway Elev. 1453.0 Ft. as of August 19 58 Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1	1311.96	2047	24.2	19.7	1303.57	1383	17.8	30.1	1297.74	1012	18.2	15.2	1304.37	1439	23.7	15.1	1
2	1312.01	2052	23.2	19.7	1303.29	1364	21.1	30.5	1297.83	1017	18.0	15.1	1304.58	1454	23.0	15.1	2
3	1312.03	2054	21.8	19.7	1302.95	1341	19.5	30.8	1297.92	1022	18.1	15.1	1304.78	1468	22.6	15.1	3
4	1312.06	2056	21.9	19.7	1302.60	1318	19.4	30.6	1298.03	1029	19.1	15.1	1304.96	1480	21.5	15.1	4
5	1312.08	2058	21.6	19.7	1302.19	1291	17.3	30.3	1298.10	1033	17.5	15.1	1305.14	1493	22.1	15.1	5
6	1312.05	2056	19.3	19.5	1301.74	1261	15.9	30.3	1298.20	1039	18.7	15.1	1305.33	1507	22.5	15.1	6
7	1311.88	2040	18.6	25.9	1301.27	1231	15.9	30.3	1298.31	1046	19.0	15.1	1305.53	1522	22.9	15.1	7
8	1311.66	2021	21.5	30.4	1300.79	1200	15.4	30.3	1298.44	1054	19.2	15.1	1305.71	1535	22.0	15.1	8
9	1311.41	1998	19.4	30.3	1300.30	1168	14.8	30.3	1298.58	1062	19.1	15.1	1305.89	1548	21.8	15.1	9
10	1311.17	1977	20.2	30.2	1299.77	1135	14.1	30.2	1298.76	1073	20.9	15.1	1307.45	1667	75.1	15.1	10
11	1310.93	1956	20.5	30.4	1299.28	1105	15.5	30.2	1298.92	1083	20.4	15.1	1308.55	1755	59.7	15.1	11
12	1310.67	1934	19.9	30.4	1298.78	1075	15.9	30.7	1299.07	1092	20.2	15.2	1310.05	1860	78.3	15.3	12
13	1310.37	1908	18.5	30.4	1298.32	1047	16.5	30.2	1299.20	1100	20.0	15.3	1310.75	1940	46.2	15.5	13
14	1310.07	1882	18.3	30.3	1297.85	1018	15.7	30.0	1299.30	1106	18.8	15.3	1311.39	1997	44.6	15.8	14
15	1309.78	1858	19.2	30.3	1297.37	990	15.8	29.8	1299.42	1114	19.6	15.3	1311.98	2049	49.3	23.0	15
16	1309.44	1829	16.9	30.5	1296.84	959	17.2	32.5	1299.53	1120	18.7	15.3	1312.22	2071	41.6	30.2	16
17	1309.10	1800	17.0	30.6	1296.78	956	19.3	20.4	1299.65	1128	19.7	15.4	1312.37	2085	37.8	30.4	17
18	1308.76	1772	17.3	30.6	1296.86	962	18.7	15.4	1299.77	1135	19.3	15.5	1312.48	2095	35.7	30.4	18
19	1308.43	1745	17.6	30.6	1296.98	967	18.4	15.6	1299.86	1140	18.7	15.7	1312.56	2102	34.2	30.4	19
20	1308.12	1720	18.5	30.6	1297.05	972	18.5	15.5	1300.00	1149	20.2	15.7	1312.60	2106	32.8	30.4	20
21	1307.82	1696	19.0	30.5	1297.12	976	18.0	15.5	1300.33	1170	26.1	15.4	1312.63	2108	32.0	30.7	21
22	1307.48	1669	17.8	30.7	1297.15	977	16.7	15.7	1300.55	1184	22.3	15.2	1312.71	2116	34.4	30.1	22
23	1307.11	1641	17.4	30.8	1297.20	980	17.6	15.7	1300.74	1196	21.3	15.2	1312.87	2130	37.6	30.8	23
24	1306.73	1611	16.2	30.8	1297.25	983	17.4	15.5	1301.50	1246	40.3	15.1	1313.06	2148	39.3	30.3	24
25	1306.36	1583	16.9	30.7	1297.32	987	17.9	15.5	1302.28	1296	40.6	15.2	1313.47	2186	49.4	30.2	25
26	1305.95	1552	15.2	30.7	1297.35	989	17.3	15.6	1302.73	1326	30.6	15.2	1314.09	2244	59.6	30.2	26
27	1305.55	1523	16.2	30.7	1297.41	993	18.1	15.6	1303.09	1350	27.7	15.3	1314.52	2284	50.7	30.2	27
28	1305.13	1492	15.2	30.4	1297.49	997	18.1	15.6	1303.42	1373	27.2	15.3	1314.85	2316	46.9	30.3	28
29	1304.73	1464	17.1	30.3	1297.57	1002	18.6	15.6	1303.68	1391	24.7	15.3	1315.12	2342	43.9	30.5	29
30	1304.33	1436	16.6	30.2	1297.65	1007	18.6	15.6	1303.93	1408	24.0	15.2	1315.34	2363	41.3	30.5	30
31	1303.93	1408	16.5	30.2					1304.14	1423	23.0	15.1	1315.53	2381	39.6	30.3	31
TOTAL			579.5	875.5			521.0	709.9			691.2	472.4			1212.1	720.5	
Inf. Ac. Ft.			1149.4				1032.4				1371.0				2404.2	1595.8	
Outf. Ac. Ft.			1736.5 + 44.8				1408.1 + 26.4				930.7 + 18.0				1429.1 + 17.1	1510.7 (106.3)	
Maximum Mean Daily Inflow			24.2				21.1				40.6				78.3	78.3	
Minimum Mean Daily Inflow			15.2				14.1				17.5				21.5	14.1	
Storage Change		+ 632				+ 401				+ 416				+ 958		+ 341.	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1331.27	feet	on 6/8 & 6/9/60	Storage	4170	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1296.70	feet	on 11/17/59	Storage	951.5	Acre Feet	O.R. WATKINS	Dam Tender	Gage Hts. copied	RAP	TS
Max. Peak Inf.	169.	C.F.S. from	2:00 A.M. on 4/28/60	to	3:00 A.M. on	4/28/60	E.K. DE VORE	Hydrographer	Storage applied	RAP	TS
Max. Peak Outf.	405	C.F.S. from	5:50 P.M. on 7/8/60	to	12:12 P.M. on	7/9/60		Hydrographer	Inf. & Outf. comp.	RAP	TS

REMARKS ( ) INDICATES EVAPORATION LOSSES

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam

In ~~On~~ San Gabriel Canyon for the Year Ending September 30, 19 60

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 44614 Ac. Ft. at Spillway Elev. 1453.0 Ft. as of August 19 58 Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	1315.97	2423	51.6	30.4	1316.00	2426	71.4	40.3	1318.05	2629	34.5	31.9	1324.19	3285	50.3	22.3	1
2	1316.90	2515	86.2	39.4	1316.33	2459	57.3	40.3	1318.04	2628	32.7	31.9	1324.64	3337	49.5	22.4	2
3	1317.10	2535	60.1	50.0	1316.56	2481	51.8	40.3	1318.04	2628	33.1	31.9	1325.14	3395	52.1	22.4	3
4	1317.18	2543	54.4	49.9	1316.72	2497	48.9	40.3	1318.00	2624	31.2	31.9	1325.63	3453	52.4	22.5	4
5	1317.17	2542	49.7	50.0	1316.84	2509	47.0	40.3	1317.96	2620	30.8	31.7	1326.03	3501	47.8	22.5	5
6	1317.10	2535	46.9	50.1	1316.92	2517	44.7	40.3	1317.90	2614	30.5	32.3	1326.36	3543	44.8	22.2	6
7	1317.01	2526	45.8	50.1	1316.99	2524	44.3	40.3	1317.84	2608	30.0	32.3	1326.70	3582	43.0	22.0	7
8	1317.08	2533	53.5	50.0	1317.08	2533	45.2	40.3	1317.93	2617	30.8	25.5	1327.02	3620	42.3	22.0	8
9	1317.31	2556	61.8	49.9	1317.16	2541	44.8	40.3	1318.06	2630	29.4	22.1	1327.33	3659	43.0	22.0	9
10	1317.43	2568	56.7	49.9	1317.21	2546	43.5	40.3	1318.19	2643	29.5	22.1	1327.63	3696	42.2	22.1	10
11	1317.44	2569	50.8	49.7	1317.25	2550	42.9	40.3	1318.34	2659	30.8	22.1	1327.89	3728	40.1	22.1	11
12	1317.38	2563	47.2	49.6	1317.29	2554	42.8	40.3	1318.48	2673	30.3	22.1	1328.12	3757	38.5	22.1	12
13	1317.28	2553	45.2	49.6	1317.32	2557	42.2	40.3	1318.58	2683	28.3	22.1	1328.35	3787	38.6	22.1	13
14	1317.15	2540	43.5	49.4	1317.35	2560	42.6	40.3	1318.65	2690	26.7	22.1	1328.61	3820	39.6	22.1	14
15	1317.00	2525	42.7	49.7	1317.37	2562	42.2	40.3	1318.72	2697	26.7	22.1	1328.90	3857	41.5	22.1	15
16	1316.81	2506	41.1	50.1	1317.34	2559	39.7	40.3	1318.78	2704	26.8	22.1	1329.16	3891	40.2	22.1	16
17	1316.60	2485	40.1	50.1	1317.30	2555	39.3	40.3	1318.81	2707	24.8	22.1	1329.39	3921	38.3	22.1	17
18	1316.41	2467	41.4	50.0	1317.25	2550	38.8	40.3	1318.85	2711	25.6	22.2	1329.60	3948	36.8	22.1	18
19	1316.22	2448	40.7	49.8	1317.17	2542	37.2	40.3	1318.87	2713	24.2	22.2	1329.77	3970	35.0	22.1	19
20	1315.99	2425	38.9	49.8	1317.09	2534	37.2	40.3	1318.88	2714	23.6	22.2	1329.91	3988	32.9	22.1	20
21	1315.75	2402	38.6	49.8	1317.00	2525	36.8	40.3	1318.89	2715	23.5	22.2	1330.04	4005	32.2	22.1	21
22	1315.52	2380	38.9	49.6	1317.00	2525	36.0	35.4	1318.98	2724	27.6	22.2	1330.20	4027	34.6	22.1	22
23	1315.34	2363	36.4	44.4	1317.10	2535	37.2	31.8	1319.16	2742	31.9	22.2	1330.34	4045	32.8	22.1	23
24	1315.24	2353	36.3	40.7	1317.20	2545	37.4	31.8	1319.33	2760	31.5	21.4	1330.48	4064	33.1	22.1	24
25	1315.15	2344	36.2	40.5	1317.29	2554	36.7	31.8	1319.45	2772	29.4	22.4	1330.63	4084	33.5	22.1	25
26	1315.05	2335	36.1	40.4	1317.37	2562	36.3	31.8	1319.56	2783	29.1	22.4	1330.72	4096	29.7	22.1	26
27	1314.95	2325	35.7	40.4	1317.49	2574	38.1	31.8	1320.74	2906	84.4	22.4	1330.81	4108	29.8	22.1	27
28	1314.92	2322	38.9	40.4	1317.73	2597	44.0	31.8	1322.37	3081	111.7	22.5	1330.87	4116	27.5	22.1	28
29	1315.36	2365	61.9	40.3	1317.86	2610	39.1	31.9	1323.14	3166	66.0	22.2	1330.94	4125	27.7	22.1	29
30					1317.95	2619	37.1	31.9	1323.73	3232	56.7	22.3	1331.00	4133	27.3	22.2	30
31					1318.02	2626	36.2	31.9					1331.07	4143	28.3	22.2	31
TOTAL			1357.3	1354.0			1318.7	1168.2			1072.1	737.1			1185.4	686.7	
Inf. Ac. Ft.			2632.2				2615.6				2126.5				2351.2	1574.3	
Outf. Ac. Ft.			2685.6 + 22.6				2317.1 + 37.5				1462.0 + 58.5				1362.0 + 78.1	1333.7 (+303.0)	
Maximum Mean Daily Inflow			86.2				71.4				111.7				52.4	111.7	
Minimum Mean Daily Inflow			35.7				36.0				23.5				27.3	14.1	
Storage Change		- 16				+ 261				+ 606				+ 911		+ 2103.	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1331.27	feet	on 6/8 & 6/9/60	Storage	4170.	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1296.70	feet	on 11/17/59	Storage	951.5	Acre Feet	O.R. WATKINS	Dam Tender	Gage Hts. copied	RAP	TS
Max. Peak Inf.	169.	C.F.S. from	2:00 A.M. on 4/28/60	to	3:00 A.M. on	4/28/60	E.K. DE VORE	Hydrographer	Storage applied	RAP	TS
Max. Peak Outf.	405	C.F.S. from	5:50 P.M. on 7/8/60	to	12:12 P.M. on	7/9/60		Hydrographer	Inf. & Outf. comp.	RAP	TS

REMARKS ( ) INDICATES EVAPORATION LOSSES

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam

In San Gabriel Canyon for the Year Ending September 30, 1960

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 44614. Ac. Ft. at Spillway Elev. 1453.0 Ft. as of August, 1958 Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	1331.10	4147	25.4	22.2	1328.72	3834	13.2	22.7	1315.33	2362	17.3	23.2	1312.24	2073	8.8	15.1	1
2	1331.13	4151	25.5	22.2	1328.66	3826	20.2	22.1	1315.17	2346	17.0	23.2	1312.07	2057	8.2	15.1	2
3	1331.14	4152	23.7	22.2	1328.61	3820	20.7	22.1	1315.00	2330	16.9	23.2	1311.90	2042	8.6	15.1	3
4	1331.17	4156	25.3	22.2	1328.56	3814	21.0	22.1	1314.83	2314	16.7	23.2	1311.71	2025	8.0	15.1	4
5	1331.20	4160	25.4	22.2	1328.50	3806	20.4	22.7	1314.67	2299	17.1	23.2	1311.51	2007	7.8	15.1	5
6	1331.22	4163	24.6	22.2	1328.47	3802	21.8	22.1	1314.50	2282	15.8	23.2	1311.26	1985	6.9	16.5	6
7	1331.26	4168	26.0	22.2	1328.42	3796	21.2	22.5	1314.33	2266	16.3	23.1	1311.05	1966	7.1	15.3	7
8	1331.27	4170	24.8	22.2	1325.80	3473	24.3	1851	1314.16	2250	16.4	23.1	1310.86	1950	8.5	15.3	8
9	1331.27	4170	23.8	22.2	1319.88	2816	33.6	3634	1313.97	2232	15.1	23.1	1310.65	1932	7.5	15.3	9
10	1331.25	4167	22.4	22.2	1317.62	2586	26.2	1407	1313.82	2218	16.9	23.1	1310.46	1916	8.0	15.3	10
11	1331.20	4160	20.4	22.2	1317.58	2582	22.9	23.3	1313.67	2204	17.2	23.1	1310.25	1898	7.4	15.3	11
12	1331.17	4156	21.5	22.2	1317.53	2577	21.9	22.8	1313.61	2199	16.4	17.7	1310.03	1879	6.7	15.2	12
13	1331.11	4148	19.6	22.1	1317.47	2572	21.4	22.4	1313.60	2198	16.0	15.3	1309.81	1860	6.9	15.3	13
14	1331.03	4137	18.1	22.1	1317.35	2560	19.2	23.3	1313.57	2195	15.1	15.3	1309.59	1842	7.3	15.3	14
15	1330.94	4125	17.4	22.1	1317.25	2550	19.9	22.9	1313.55	2193	15.7	15.3	1309.38	1824	7.2	15.3	15
16	1330.86	4114	18.3	22.1	1317.14	2539	18.5	22.4	1313.52	2190	15.8	16.0	1309.17	1806	7.1	15.3	16
17	1330.76	4101	17.5	22.1	1317.03	2528	18.3	22.4	1313.50	2188	15.6	15.3	1308.98	1790	8.3	15.3	17
18	1330.66	4088	17.5	22.1	1316.91	2516	17.9	22.4	1313.47	2186	15.8	15.3	1308.77	1773	7.8	15.3	18
19	1330.55	4073	16.2	22.1	1316.80	2505	18.3	22.4	1313.42	2181	14.3	15.3	1308.57	1757	8.2	15.3	19
20	1330.44	4059	17.1	22.1	1316.66	2493	17.6	22.5	1313.38	2177	14.7	15.3	1308.37	1740	7.7	15.3	20
21	1330.31	4041	15.5	22.1	1316.53	2488	20.8	22.5	1313.32	2172	14.1	15.3	1308.17	1724	8.1	15.3	21
22	1330.16	4021	14.2	22.1	1316.56	2481	20.2	22.5	1313.27	2167	14.0	15.3	1307.97	1708	8.1	15.3	22
23	1330.01	4001	13.9	22.1	1316.44	2475	20.6	22.5	1313.20	2161	13.5	15.3	1307.77	1692	8.5	15.2	23
24	1329.87	3983	15.1	22.1	1316.39	2465	18.9	22.5	1313.12	2153	12.5	15.3	1307.55	1675	7.8	15.2	24
25	1329.70	3961	13.1	22.1	1316.29	2455	19.0	22.5	1313.05	2147	13.4	15.3	1307.27	1653	5.8	15.8	25
26	1329.56	3943	15.2	22.1	1316.17	2443	18.6	23.3	1312.96	2138	12.1	15.3	1306.99	1631	5.0	15.1	26
27	1329.41	3923	14.2	22.1	1316.04	2430	18.2	23.4	1312.87	2130	12.6	15.3	1306.72	1611	6.1	15.1	27
28	1329.24	3901	13.2	22.1	1315.91	2417	18.0	23.3	1312.78	2122	12.6	15.3	1306.63	1604	6.0	8.7	28
29	1329.07	3879	13.2	22.1	1315.77	2404	18.0	23.2	1312.66	2111	10.8	15.2	1306.65	1605	6.8	5.6	29
30	1328.90	3857	12.9	22.1	1315.63	2390	17.5	23.2	1312.56	2102	12.1	15.2	1306.70	1609	8.0	5.3	30
31					1315.49	2377	18.2	23.2	1312.41	2088	9.5	15.2					31
TOTAL			1571.0	664.2			626.5	1324.4			459.3	563.5			224.2	432.7	
Inf. Ac. Ft.			1132.6				1242.6				911.0				444.7	1947.4	
Outf. Ac. Ft.			1317.4 + 101.2				2626.9 + 95.8				1117.7 + 82.3				858.2 + 65.5	19257.8 + (647.8)	
Maximum Mean Daily Inflow			26.0				33.6				17.3				8.8	111.7	
Minimum Mean Daily Inflow			12.9				13.2				9.5				5.0	5.0	
Storage Change		- 286				- 1480				- 289				- 479		- 431	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1331.27	feet on	6/8 & 6/9/60	Storage	4170.	Acre Feet		
Min. W. S. Elev.	1296.70	feet on	11/17/59	Storage	951.5	Acre Feet		
Max. Peak Inf.	169.	C.F.S. from	2:00 A.M. on	4/28/60	to	3:00 A.M. on	4/28/60	
Max. Peak Outf.	405.	C.F.S. from	5:50 P.M. on	7/8/60	to	12:12 P.M. on	7/9/60	

REMARKS ( ) INDICATES EVAPORATION LOSSES

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
O.R. WATKINS	Dam Tender	Gage Hts. copied	RAP TS GLW	
E.K. DE VORE	Hydrographer	Storage applied	RAP TS GLW	
	Hydrographer	Inf. & Outf. comp.	RAP TS GLW	

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam

In San Gabriel Canyon for the Year Ending September 30, 1961

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 44,614.0 Ac. Ft. at Spillway Elev. 1453.0 Ft. as of August, 1958 Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1	1306.77	1615	9.0	5.3	1309.11	1801	10.2	9.1	1325.07	3386	26.5	22.3	1325.43	3429	22.0	21.4	1
2	1306.84	1620	8.9	5.6	1309.13	1803	10.5	9.1	1325.15	3396	27.9	22.4	1325.42	3428	22.2	22.0	2
3	1306.90	1624	8.7	5.6	1309.55	1838	26.8	9.1	1325.22	3404	27.0	22.5	1325.40	3426	21.8	22.0	3
4	1306.92	1626	8.2	6.3	1310.27	1899	40.2	9.1	1325.29	3413	27.4	22.6	1325.39	3424	21.6	21.9	4
5	1306.91	1625	7.5	7.2	1312.17	2066	93.3	9.1	1325.34	3418	26.0	22.6	1325.37	3422	21.5	21.8	5
6	1306.91	1625	7.8	7.2	1314.67	2299	122.0	4.5	1325.36	3421	24.8	22.6	1325.35	3420	21.7	21.8	6
7	1306.91	1625	7.9	7.2	1316.04	2430	66.6	0.2	1325.39	3424	24.6	22.4	1325.33	3417	21.0	21.8	7
8	1306.92	1626	8.2	7.2	1316.94	2519	45.5	0.2	1325.43	3429	25.3	22.2	1325.31	3415	21.5	21.8	8
9	1307.25	1652	20.4	7.2	1317.65	2589	36.2	0.2	1325.46	3433	24.9	22.2	1325.29	3413	21.5	21.8	9
10	1307.78	1693	28.5	7.2	1318.27	2652	32.7	0.2	1325.51	3439	25.5	22.2	1325.26	3409	20.8	22.0	10
11	1308.06	1715	18.8	7.4	1318.84	2710	29.9	0.2	1325.52	3440	23.2	22.2	1325.26	3409	22.8	22.1	11
12	1308.28	1733	17.2	7.4	1320.93	2926	109.1	0.2	1325.55	3443	24.4	22.2	1325.26	3409	22.8	22.1	12
13	1308.45	1747	15.2	7.5	1322.23	3065	70.6	0.2	1325.57	3446	24.5	22.3	1325.25	3408	22.3	22.0	13
14	1308.65	1763	16.4	7.2	1323.10	3161	49.1	0.2	1325.59	3448	23.8	22.3	1325.23	3405	21.2	22.0	14
15	1308.72	1769	11.1	7.0	1323.60	3218	40.6	11.4	1325.60	3449	23.2	22.3	1325.19	3401	20.7	22.0	15
16	1308.81	1776	11.5	7.0	1323.62	3220	36.1	34.3	1325.62	3452	24.5	22.3	1325.16	3397	20.9	22.1	16
17	1308.86	1781	11.8	8.3	1323.39	3194	32.9	45.2	1325.63	3453	23.7	22.3	1325.13	3393	20.8	22.0	17
18	1308.87	1781	10.0	9.3	1323.31	3185	31.2	35.0	1325.63	3453	22.8	22.3	1325.11	3391	21.7	22.0	18
19	1308.89	1783	11.1	9.3	1323.29	3183	30.0	29.9	1325.62	3452	22.6	22.3	1325.09	3389	22.0	22.1	19
20	1308.91	1785	11.2	9.3	1323.23	3176	27.3	29.9	1325.61	3451	22.5	22.3	1325.07	3386	21.6	22.3	20
21	1308.91	1785	10.4	9.3	1323.16	3168	26.7	29.9	1325.59	3448	21.2	22.3	1325.05	3384	22.3	22.4	21
22	1308.91	1785	9.9	9.3	1323.17	3169	26.3	25.0	1325.58	3447	22.5	22.3	1325.02	3380	20.9	22.5	22
23	1308.91	1785	9.8	9.3	1323.21	3174	25.8	22.5	1325.57	3446	22.5	22.3	1325.00	3378	22.2	22.6	23
24	1308.92	1785	9.9	9.3	1323.25	3178	25.3	22.5	1325.56	3445	22.5	22.3	1324.98	3376	21.8	22.6	24
25	1308.96	1789	12.0	9.3	1323.28	3182	25.3	22.5	1325.54	3442	21.4	22.3	1324.97	3375	22.1	22.6	25
26	1309.00	1792	11.3	9.3	1323.90	3252	50.3	15.0	1325.54	3442	23.1	22.3	1326.57	3566	118.9	22.6	26
27	1309.03	1795	11.5	9.3	1324.54	3325	37.5	0.2	1325.52	3440	22.1	22.4	1327.20	3643	61.7	22.6	27
28	1309.05	1796	10.4	9.2	1324.87	3363	29.8	10.0	1325.48	3435	21.0	22.5	1327.54	3685	44.4	22.6	28
29	1309.06	1797	10.3	9.1	1324.96	3373	27.9	22.3	1325.46	3433	22.5	22.6	1327.76	3712	36.7	22.7	29
30	1309.08	1799	10.9	9.1	1325.00	3378	25.3	22.3	1325.44	3430	21.5	22.2	1327.96	3737	35.5	22.3	30
31	1309.09	1800	10.2	9.0					1325.43	3429	22.1	22.0	1328.13	3759	33.5	22.1	31
TOTAL			366.0	247.2			1241.0	429.5			737.5	692.3			872.4	686.6	
Inf. Ac. Ft.			726.0				2461.5				1462.8				1730.4	6380.7	
Outf. Ac. Ft.			490.3 + (44.6)				851.9 + (31.5)				1373.2 + (38.7)				1361.9 + (38.5)	4077.3 + (153.3)	
Maximum Mean Daily Inflow			28.5				122.0				27.9				118.9	122.0	
Minimum Mean Daily Inflow			7.5				10.2				21.0				20.7	7.5	
Storage Change		+ 191				+ 1578				+ 51.0				+ 330		+2150.	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1329.22	feet on	5/14 & 15/61	Storage	3720.	Acre Feet		
Min. W. S. Elev.	1268.46	feet on	9/5/61	Storage	26.5	Acre Feet		
Max. Peak Inf.	634.	C.F.S. from	7:00 P.M. on	11/5/60	to	7:30 P.M. on	11/5/60	
Max. Peak Outf.	460	C.F.S. from	12:00 MID. on	5/15/61	to	12:00 MID. on	5/16/61	

REMARKS ( ) INDICATES EVAPORATION LOSSES

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
O.R. WATKINS	Dam Tender	Gage Hts. copied	RAP TS	
E.K. DE VORE	Hydrographer	Storage applied	RAP TS	
	Hydrographer	Inf. & Outf. comp.	RAP TS	

76D138N-68B Gls 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam

In San Gabriel Canyon for the Year Ending September 30, 1961

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 141,614.0 Ac. Ft. at Spillway Elev. 1453.0 Ft. as of August 1958 Gage Heights Read daily

Day	February Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	March Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	April Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	May Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1328.24	3773	29.5	22.0	1328.97	3866	24.4	22.3	1327.87	3726	19.2	22.5	1328.69	3830	12.5	10.3	1
2	1328.34	3786	29.0	22.2	1328.99	3869	24.4	22.3	1327.77	3713	17.2	22.5	1328.72	3834	13.5	10.3	2
3	1328.43	3797	28.4	22.3	1328.97	3866	21.4	22.3	1327.65	3699	17.0	22.5	1328.77	3841	14.5	10.3	3
4	1328.48	3803	26.3	22.4	1328.96	3865	22.3	22.3	1327.57	3689	15.6	19.8	1328.87	3853	17.0	10.3	4
5	1328.53	3810	26.8	22.4	1328.93	3861	20.8	22.3	1327.55	3686	16.3	17.2	1328.94	3862	16.0	10.3	5
6	1328.57	3815	25.5	22.5	1328.90	3857	21.1	22.3	1327.57	3689	19.4	17.2	1329.02	3873	16.6	10.3	6
7	1328.62	3821	25.9	22.3	1328.85	3851	20.3	22.2	1327.58	3690	18.5	17.2	1329.09	3882	15.5	10.3	7
8	1328.67	3828	26.1	22.2	1328.80	3844	19.8	22.3	1327.59	3691	19.0	17.2	1329.12	3886	14.0	10.3	8
9	1328.71	3833	25.3	22.2	1328.74	3837	19.9	22.3	1327.57	3689	17.1	17.2	1329.15	3890	14.1	10.3	9
10	1328.74	3837	24.9	22.2	1328.68	3829	19.1	22.2	1327.57	3689	18.0	17.2	1329.15	3890	11.6	10.3	10
11	1328.76	3839	23.6	22.2	1328.62	3821	19.0	22.3	1327.56	3687	17.4	17.2	1329.16	3891	12.1	10.3	11
12	1328.78	3842	24.3	22.2	1328.55	3812	18.5	22.2	1327.53	3684	16.6	17.2	1329.19	3895	14.1	10.3	12
13	1328.80	3844	23.8	22.2	1328.49	3805	19.6	22.2	1327.50	3680	16.5	17.2	1329.20	3896	12.2	10.3	13
14	1328.82	3847	24.5	22.2	1328.42	3796	18.0	22.2	1327.52	3682	16.3	13.8	1329.22	3720 1/	13.2	10.3	14
15	1328.84	3850	24.2	22.2	1328.48	3803	26.7	22.2	1327.58	3690	16.1	10.4	1325.12	3223	15.6	264.6	15
16	1328.86	3852	23.9	22.2	1328.47	3802	22.2	21.9	1327.63	3696	15.0	10.4	1316.63	2339	15.0	460.0	16
17	1328.87	3853	23.3	22.2	1328.44	3798	21.1	22.3	1327.66	3700	13.7	10.4	1306.34	1526	15.0	424.0	17
18	1328.88	3855	24.1	22.2	1328.39	3792	20.3	22.3	1327.71	3706	14.3	10.4	1298.19	1039	15.0	260.0	18
19	1328.87	3853	22.2	22.2	1328.32	3783	18.5	22.1	1327.77	3713	15.2	10.5	1298.37	1050	16.5	10.4	19
20	1328.84	3850	21.8	22.2	1328.26	3775	18.5	21.8	1327.84	3722	16.0	10.3	1298.28	1044	12.9	15.3	20
21	1328.84	3850	23.5	22.3	1328.20	3768	19.1	21.9	1327.93	3733	16.5	10.2	1298.16	1037	12.3	15.3	21
22	1328.84	3850	23.2	22.1	1328.13	3759	18.1	21.9	1328.10	3755	21.9	10.2	1298.02	1028	11.2	15.3	22
23	1328.83	3848	22.4	22.2	1328.08	3752	18.7	21.9	1328.23	3771	19.4	10.2	1298.02	1028	12.5	12.0	23
24	1328.82	3847	22.9	22.2	1328.08	3752	22.4	22.1	1328.35	3787	19.8	10.2	1298.06	1032	12.9	10.3	24
25	1328.86	3852	25.5	22.2	1328.14	3760	27.2	22.2	1328.43	3797	16.6	10.2	1298.12	1034	12.3	10.6	25
26	1328.90	3857	25.6	22.3	1328.12	3757	21.4	22.2	1328.51	3807	16.9	10.3	1298.16	1037	12.7	10.6	26
27	1328.92	3860	25.0	22.3	1328.10	3755	21.3	22.3	1328.56	3814	15.5	10.3	1298.16	1038	11.7	10.6	27
28	1328.95	3864	25.4	22.3	1328.11	3756	24.2	22.5	1328.60	3819	14.5	10.3	1298.20	1039	11.6	10.6	28
29					1328.06	3750	20.7	22.5	1328.64	3824	14.3	10.3	1298.23	1041	12.3	10.6	29
30					1328.00	3742	19.2	22.5	1328.67	3828	13.1	9.9	1298.23	1041	11.3	10.6	30
31					1327.94	3735	19.7	22.5					1298.26	1043	12.1	10.6	31
TOTAL			6969	622.6			6479	6888			5029	4205			4198	1705.6	
Inf. Ac. Ft.			13823				12351				9975				8227	10878.3	
Outf. Ac. Ft.			12349	+ (42.4)			13662	+ (47.8)			8340	+ (70.2)		3383.0	+ (55.5) 2/	10895.4 + (369.0)	
Maximum Mean Daily Inflow			29.5				27.2				21.9				17.0	122.0	
Minimum Mean Daily Inflow			21.8				18.0				13.1				11.2	7.5	
Storage Change		+105				-129				+930				-2785 2/		-566. 1/	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1329.22	feet	on 5/14 & 15/61	Storage	3720.	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1268.46	feet	on 9/5/61	Storage	26.5	Acre Feet	O.R. WATKINS	Dam Tender	Gage Hts. copied	TS	RAP
Max. Peak Inf.	634.	C.F.S. from	7:00 P.M. on 11/5/60	to	7:30 P.M.	on 11/5/60	E.K. DE VORE	Hydrographer	Storage applied	TS	RAP
Max. Peak Outf.	460.	C.F.S. from	12:00 MID. on 5/15/61	to	12:00 MID.	on 5/16/61		Hydrographer	Inf. & Outf. comp.	TS	RAP

REMARKS ( ) INDICATES EVAPORATION LOSSES
1/ ESTIMATE 179.5 A.F. STORAGE LOSS DUE TO SILTATION AND OTHER LOSSES.
2/ INCLUDES ESTIMATED 179.5 A.F. LOSS

76D138N-68B Gls 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN GABRIEL Dam

In San Gabriel Canyon for the Year Ending September 30, 1961

141,366.0 September 1961

Continuous Water Stage Recorder Au

Drainage Area 202.7 Square Miles. Capacity of Reservoir 141,614.0 Ac. Ft. at Spillway Elev. 1453.0 Ft. as of August 1958 Gage Heights Read daily

Day	June Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	July Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	August Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	September Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Day
1	1298.30	1045	12.1	10.6	1297.54	1000	4.6	3.2	1297.39	991	2.9	3.1	1268.50 5/	27 1/	4.0	6.8	1
2	1298.36	1049	13.2	10.6	1297.60	1004	5.8	3.2	1297.36	990	3.4	3.1	1268.48	26.9	3.7	3.7	2
3	1298.37	1050	11.7	10.6	1297.64	1006	4.9	3.2	1297.33	988	2.6	3.1	1268.47	26.7	2.8	2.8	3
4	1298.34	1048	10.2	10.6	1297.70	1009	5.4	3.2	1297.30	986	2.7	3.1	1268.47	26.7	2.3	2.2	4
5	1298.33	1047	10.4	10.4	1297.76	1013	6.1	3.1	1297.43	994	7.9	3.1	1268.46	26.5	2.3	2.3	5
6	1298.30	1045	10.1	10.5	1297.81	1016	5.6	3.1	1297.56	1001	7.5	3.1	1268.47	26.7	2.3	2.1	6
7	1298.27	1043	10.1	10.5	1297.82	1016	4.4	3.2	1297.62	1005	5.9	3.1	1268.48	26.9	2.3	2.1	7
8	1298.23	1041	10.1	10.5	1297.83	1017	4.9	3.2	1297.69	1009	6.0	3.1	1268.50	27.1	2.9	2.7	8
9	1298.20	1039	10.2	10.5	1297.81	1016	3.5	3.1	1297.72	1011	4.8	3.1	1269.00	29.7	3.2	1.8	9
10	1298.16	1037	10.1	10.5	1297.81	1016	3.9	3.1	1297.77	1014	5.3	3.1	1269.20	31.0	3.0	2.2	10
11	1298.10	1033	9.1	10.5	1297.80	1015	3.4	3.1	1297.79	1015	4.5	3.1	1269.30	31.7	3.1	2.7	11
12	1298.01	1028	8.7	10.6	1297.80	1015	3.9	3.1	1297.81	1016	4.5	3.1	1269.40	32.3	2.9	2.5	12
13	1297.89	1021	7.9	10.6	1297.79	1015	3.9	3.1	1297.82	1016	3.9	3.1	1269.40	32.5	2.8	2.6	13
14	1297.82	1016	6.8	8.4	1297.77	1014	3.5	3.1	1297.82	1016	4.0	3.1	1269.50	32.9	3.0	2.7	14
15	1297.76	1013	6.8	7.4	1297.77	1014	3.9	3.1	1297.81	1016	3.9	3.1	1269.70	34.5	3.2	2.3	15
16	1297.67	1008	5.7	7.4	1297.74	1012	2.9	3.1	1297.80	1015	3.4	3.1	1269.90	35.7	3.5	2.8	16
17	1297.57	1002	5.1	7.4	1297.73	1011	3.5	3.2	1297.79	1015	4.0	3.1	1270.15	37.6	4.0	3.0	17
18	1297.49	997	5.6	7.2	1297.70	1009	3.1	3.2	1297.74	1012	2.2	3.1	1270.40	39.7	4.2	3.0	18
19	1297.47	996	6.3	6.0	1297.67	1008	3.6	3.2	1297.72	1011	3.3	3.1	1270.70	42.2	4.2	2.9	19
20	1297.47	996	5.2	4.5	1297.64	1006	2.9	3.1	1297.73	811 3/	3.9	3.1	1270.60	41.3	4.5	4.8	20
21	1297.50	998	6.2	4.4	1297.62	1005	3.4	3.1	1293.59	680	3.0	68.2	1270.60	41.3	5.1	5.1	21
22	1297.53	1000	5.8	4.0	1297.61	1004	3.4	3.1		416 4/	3.6	136.0	1270.64	41.6	5.8	5.6	22
23	1297.55	1001	5.4	3.9	1297.60	1004	3.8	3.1		1774/	3.9	124.0	1270.68	41.9	5.8	5.5	23
24	1297.54	1000	5.0	4.7	1297.59	1003	3.3	3.1	1271.15 5/	810	3.8	52.0	1270.68	41.9	5.1	5.0	24
25	1297.52	999	5.2	4.8	1297.57	1002	3.4	3.1	1271.10	780	3.6	5.0	1270.50	40.4	4.7	5.4	25
26	1297.47	996	4.3	5.0	1297.56	1001	3.4	3.1	1270.80	772	3.8	4.0	1270.25	38.4	4.4	5.3	26
27	1297.48	997	5.4	4.0	1297.53	1000	3.5	3.1	1270.00	681	3.6	8.0	1269.90	35.6	4.4	5.7	27
28	1297.51	998	5.0	3.4	1297.51	998	2.9	3.1	1270.05	689	3.7	3.2	1269.80	35.1	4.0	4.1	28
29	1297.52	999	5.1	3.4	1297.49	997	3.3	3.1	1270.10	697	3.8	3.3	1269.75 5/	33.0	4.2	5.2	29
30	1297.52	999	4.4	3.2	1297.45	995	2.9	3.1	1270.20 5/	705	3.7	3.2	1269.75 5/	32.2	4.2	4.5	30
31					1297.42	993	3.0	3.1	1269.40 5/	633	3.7	7.3					31
TOTAL			2272	226.1			1200	970			1270	4762			1119	1094	
Inf. Ac. Ft.			4506				2380				2519				2220	12040.8	
Outf. Ac. Ft.			4485	+ (46.2)			1924	+ (51.6)			9445	+ (37.1)		2170	+ (5.6)	12697.8 + (509.5)	
Maximum Mean Daily Inflow			13.2				6.1				7.9				5.8	122.0	
Minimum Mean Daily Inflow			4.3				2.9				2.2				2.3	2.2	
Storage Change		-44.0				-60				-929.7 3/				-31.1 7/		-1576.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1329.22	feet	on 5/14 & 15/61	Storage	3720.	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1268.46	feet	on 9/5/61	Storage	26.5	Acre Feet	O.R. WATKINS	Dam Tender	Gage Hts. copied	TS	RAP
Max. Peak Inf.	634.	C.F.S. from	7:00 P.M. on 11/5/60	to	7:30 P.M.	on 11/5/60	E.K. DE VORE	Hydrographer	Storage applied	TS	RAP
Max. Peak Outf.	460.	C.F.S. from	12:00 MID. on 5/15/61	to	12:00 MID.	on 5/16/61		Hydrographer	Inf. & Outf. comp.	TS	RAP

REMARKS ( ) INDICATES EVAPORATION LOSSES. 3/ ESTIMATED 200 A.F. LOSS DUE TO SILTATION AND OTHER LOSSES. 4/ STORAGE IS TOTAL OF RESERVOIR AND SUMP. STORAGE VALUES FOR REMAINDER OF YEAR ARE FOR SUMP ONLY. 5/ ESTIMATED GAGE HEIGHTS. 6/ CHANGED TO STORAGE TABLE XVIII. 30.5 A.F. LOSS DUE TO SILTATION. 7/ INCLUDES 30.5 A.F. LOSS DUE TO SILTATION

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

In Big Dalton Canyon for the Year Ending September 30, 19 60

On

Drainage Area 4.49 Square Miles. Capacity of Reservoir 950.8 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of September, 19 49

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	October				November				December				January				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1640.3	64.0	0.03	0	1640.3	64.0	0.03	0	1640.5	64.8	0.03	0	1640.8	66.2	0.02	0	1
2	1640.3	64.0	0.03	0	1640.3	64.0	0.03	0	1640.5	64.8	0.03	0	1640.8	66.2	0.02	0	2
3	1640.3	64.0	0.03	0	1640.4	64.4	0.03	0	1640.5	64.8	0.03	0	1640.8	66.2	0.02	0	3
4	1640.3	64.0	0.03	0	1640.4	64.4	0.03	0	1640.5	64.8	0.03	0	1640.8	66.2	0.02	0	4
5	1640.3	64.0	0.03	0	1640.4	64.4	0.03	0	1640.5	64.8	0.03	0	1640.8	66.2	0.02	0	5
6	1640.3	64.0	0.03	0	1640.4	64.4	0.03	0	1640.5	64.8	0.03	0	1640.8	66.2	0.02	0	6
7	1640.3	64.0	0.03	0	1640.4	64.4	0.03	0	1640.5	64.8	0.03	0	1640.9	66.6	0.02	0	7
8	1640.3	64.0	0.03	0	1640.4	64.4	0.03	0	1640.5	64.8	0.03	0	1640.9	66.6	0.03	0	8
9	1640.3	64.0	0.02	0	1640.4	64.4	0.03	0	1640.5	64.8	0.03	0	1640.9	66.6	0.03	0	9
10	1640.3	64.0	0.02	0	1640.4	64.4	0.03	0	1640.5	64.8	0.03	0	1641.1	67.6	0.5	0	10
11	1640.3	64.0	0.02	0	1640.4	64.4	0.03	0	1640.5	64.8	0.03	0	1641.2	68.0	0.2	0	11
12	1640.3	64.0	0.02	0	1640.4	64.4	0.03	0	1640.5	64.8	0.03	0	1641.2	68.0	0.01	0	12
13	1640.3	64.0	0.02	0	1640.4	64.4	0.03	0	1640.5	64.8	0.02	0	1641.2	68.0	0.01	0	13
14	1640.3	64.0	0.02	0	1640.4	64.4	0.03	0	1640.5	64.8	0.02	0	1641.2	68.0	0.01	0	14
15	1640.3	64.0	0.02	0	1640.4	64.4	0.03	0	1640.5	64.8	0.02	0	1641.3	68.5	0.3	0	15
16	1640.3	64.0	0.02	0	1640.4	64.4	0.03	0	1640.5	64.8	0.02	0	1641.3	68.5	0.06	0	16
17	1640.3	64.0	0.02	0	1640.4	64.4	0.03	0	1640.5	64.8	0.02	0	1641.3	68.5	0.06	0	17
18	1640.3	64.0	0.02	0	1640.4	64.4	0.03	0	1640.5	64.8	0.02	0	1641.4	69.0	0.06	0	18
19	1640.3	64.0	0.02	0	1640.4	64.4	0.03	0	1640.5	64.8	0.02	0	1641.4	69.0	0.06	0	19
20	1640.3	64.0	0.02	0	1640.4	64.4	0.03	0	1640.6	65.3	0.02	0	1641.4	69.0	0.06	0	20
21	1640.3	64.0	0.02	0	1640.4	64.4	0.04	0	1640.6	65.3	0.02	0	1641.4	69.0	0.05	0	21
22	1640.3	64.0	0.02	0	1640.5	64.8	0.04	0	1640.6	65.3	0.02	0	1641.4	69.0	0.05	0	22
23	1640.3	64.0	0.02	0	1640.5	64.8	0.04	0	1640.6	65.3	0.02	0	1641.4	69.0	0.05	0	23
24	1640.3	64.0	0.02	0	1640.5	64.8	0.04	0	1640.7	65.8	0.20	0	1641.5	69.4	0.05	0	24
25	1640.3	64.0	0.02	0	1640.5	64.8	0.04	0	1640.8	66.2	0.20	0	1641.6	69.9	0.3	0	25
26	1640.3	64.0	0.02	0	1640.5	64.8	0.04	0	1640.8	66.2	0.02	0	1641.6	69.9	0.05	0	26
27	1640.3	64.0	0.02	0	1640.5	64.8	0.04	0	1640.8	66.2	0.02	0	1641.6	69.9	0.05	0	27
28	1640.3	64.0	0.02	0	1640.5	64.8	0.04	0	1640.8	66.2	0.02	0	1641.6	69.9	0.05	0	28
29	1640.3	64.0	0.02	0	1640.5	64.8	0.04	0	1640.8	66.2	0.02	0	1641.6	69.9	0.04	0	29
30	1640.3	64.0	0.02	0	1640.5	64.8	0.04	0	1640.8	66.2	0.02	0	1641.6	69.9	0.04	0	30
31	1640.3	64.0	0.02	0					1640.8	66.2	0.02	0	1641.7	70.4	0.04	0	31
TOTAL			0.70	0			1.00	0			1.10	0			2.30	0	
Inf. Ac. Ft.			1.4				2.0				2.2				4.6	1.02	
Outf. Ac. Ft.			0 + (1.4)				0 + (1.2)				0 + (0.8)				0 + (0.4)	0 + (3.8)	
Maximum Mean Daily Inflow			0.03				0.04				0.2				0.5	0.5	
Minimum Mean Daily Inflow			0.02				0.03				0.02				0.01	0.01	
Storage Change		0				+ 0.8				+ 1.4				+ 4.2		+ 6.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1647.2	feet	on	VARIOUS DAYS	Storage	99.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1640.3	feet	on	VARIOUS DAYS	Storage	64.0	Acre Feet	D.E. WILSON	Dam Tender	Gage Hts. copied	RAP GLW
Max. Peak Inf.	4.8	C.F.S. from	8:30 P.M.	on 4/27/60	to	9:00 P.M.	on 4/27/60	R.J. SARASUA	Hydrographer	Storage applied	RAP GLW
Max. Peak Outf.	5.0	C.F.S. from	1:35 P.M.	on 7/21/60	to	8:00 P.M.	on 7/21/60		Hydrographer	Inf. & Outf. comp.	RAP GLW

REMARKS ( ) INDICATES EVAPORATION LOSSES

{ INDICATES AVERAGE FOR PERIOD

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

In Big Dalton Canyon for the Year Ending September 30, 19 60

On

Drainage Area 4.49 Square Miles. Capacity of Reservoir 950.8 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of September, 19 49

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	February				March				April				May				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1641.8	70.9	0.3	0	1643.3	78.3	0.2	0	1644.8	86.2	0.1	0	1646.0	92.8	0.2	0	1
2	1641.8	70.9	0.09	0	1643.4	78.8	0.2	0	1644.9	86.8	0.1	0	1646.0	92.8	0.2	0	2
3	1641.9	71.3	0.09	0	1643.4	78.8	0.2	0	1644.9	86.8	0.1	0	1646.1	93.4	0.2	0	3
4	1641.9	71.3	0.08	0	1643.4	78.8	0.2	0	1644.9	86.8	0.1	0	1646.1	93.4	0.2	0	4
5	1641.9	71.3	0.08	0	1643.5	79.4	0.2	0	1645.0	87.3	0.1	0	1646.2	94.0	0.2	0	5
6	1641.9	71.3	0.08	0	1643.5	79.4	0.2	0	1645.0	87.3	0.1	0	1646.2	94.0	0.2	0	6
7	1642.0	71.8	0.08	0	1643.6	79.9	0.2	0	1645.0	87.3	0.1	0	1646.3	94.5	0.2	0	7
8	1642.2	72.8	0.5	0	1643.7	80.4	0.2	0	1645.0	87.3	0.1	0	1646.3	94.5	0.2	0	8
9	1642.3	73.3	0.3	0	1643.7	80.4	0.2	0	1645.0	87.3	0.1	0	1646.3	94.5	0.2	0	9
10	1642.3	73.3	0.1	0	1643.8	80.9	0.2	0	1645.1	87.8	0.1	0	1646.4	95.1	0.1	0	10
11	1642.3	73.3	0.1	0	1643.8	80.9	0.2	0	1645.1	87.8	0.1	0	1646.4	95.1	0.1	0	11
12	1642.4	73.8	0.1	0	1843.9	81.4	0.2	0	1645.2	88.4	0.1	0	1646.4	95.1	0.1	0	12
13	1642.4	73.8	0.1	0	1843.9	81.4	0.2	0	1645.2	88.4	0.1	0	1646.5	95.7	0.1	0	13
14	1642.4	73.8	0.1	0	1644.0	81.9	0.2	0	1645.2	88.4	0.1	0	1646.5	95.7	0.1	0	14
15	1642.5	74.3	0.1	0	1644.0	81.9	0.2	0	1645.2	88.4	0.1	0	1646.5	95.7	0.1	0	15
16	1642.5	74.3	0.1	0	1644.1	82.4	0.2	0	1645.3	89.0	0.1	0	1646.5	95.7	0.1	0	16
17	1642.6	74.8	0.1	0	1644.1	82.4	0.1	0	1645.3	89.0	0.1	0	1646.5	95.7	0.1	0	17
18	1642.6	74.8	0.1	0	1644.1	82.4	0.1	0	1645.4	89.5	0.1	0	1646.5	95.7	0.1	0	18
19	1642.6	74.8	0.1	0	1644.2	83.0	0.1	0	1645.4	89.5	0.1	0	1646.5	95.7	0.1	0	19
20	1642.6	74.8	0.1	0	1644.2	83.0	0.1	0	1645.4	89.5	0.1	0	1646.6	96.3	0.1	0	20
21	1642.7	75.3	0.1	0	1644.3	83.5	0.1	0	1645.4	89.5	0.1	0	1646.6	96.3	0.1	0	21
22	1642.8	75.8	0.1	0	1644.3	83.5	0.1	0	1645.5	90.0	0.1	0	1646.6	96.3	0.1	0	22
23	1642.8	75.8	0.1	0	1644.4	84.1	0.1	0	1645.5	90.0	0.1	0	1646.6	96.3	0.1	0	23
24	1642.8	75.8	0.1	0	1644.5	84.6	0.1	0	1645.5	90.0	0.2	0	1646.6	96.3	0.1	0	24
25	1642.9	76.3	0.1	0	1644.5	84.6	0.1	0	1645.6	90.6	0.2	0	1646.7	96.9	0.1	0	25
26	1642.9	76.3	0.1	0	1644.5	84.6	0.1	0	1645.6	90.6	0.2	0	1646.7	96.9	0.1	0	26
27	1643.0	76.8	0.2	0	1644.6	85.1	0.1	0	1645.8	91.7	0.6	0	1646.7	96.9	0.1	0	27
28	1643.1	77.3	0.3	0	1644.6	85.1	0.1	0	1645.8	91.7	0.1	0	1646.8	97.4	0.1	0	28
29	1643.2	77.8	0.2	0	1644.7	85.7	0.1	0	1645.9	92.2	0.1	0	1646.8	97.4	0.1	0	29
30					1644.7	85.7	0.1	0	1645.9	92.2	0.1	0	1646.8	97.4	0.1	0	30
31					1644.8	86.2	0.1	0					1646.9	98.0	0.1	0	31
TOTAL			4.00	0			4.7	0			3.8	0			4.0	0	
Inf. Ac. Ft.			7.9				9.3				7.5				7.9	4.28	
Outf. Ac. Ft.			0 + (0.5)				0 + (0.9)				0 + (1.5)				0 + (2.1)	0 + (8.8)	
Maximum Mean Daily Inflow			0.5				0.2				0.6				0.2	0.6	
Minimum Mean Daily Inflow			0.08				0.1				0.1				0.1	0.01	
Storage Change		+ 7.4				+ 8.4				+ 6.0				+ 5.8		+ 34.0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1647.2	feet	on	VARIOUS DAYS	Storage	99.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1640.3	feet	on	VARIOUS DAYS	Storage	64.0	Acre Feet	D.E. WILSON	Dam Tender	Gage Hts. copied	RAP GLW
Max. Peak Inf.	4.8	C.F.S. from	8:30 P.M.	on 4/27/60	to	9:00 P.M.	on 4/27/60	R.J. SARASUA	Hydrographer	Storage applied	RAP GLW
Max. Peak Outf.	5.0	C.F.S. from	1:35 P.M.	on 7/21/60	to	8:00 P.M.	on 7/21/60		Hydrographer	Inf. & Outf. comp.	RAP GLW

REMARKS ( ) INDICATES EVAPORATION LOSSES

{ INDICATES AVERAGE FOR PERIOD

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

In Big Dalton Canyon for the Year Ending September 30, 19 60

Continuous Water Stage Recorder Au

Drainage Area 4.19 Square Miles. Capacity of Reservoir 950.8 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of September 1944 Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	1646.9	980	008	0	1647.2	998	006	0	1645.0	873	004	0	1644.8	862	003	0	1
2	1646.9	980	008	0	1647.2	998	006	0	1645.0	873	004	0	1644.8	862	003	0	2
3	1646.9	980	008	0	1647.2	998	005	0	1645.0	873	004	0	1644.8	862	003	0	3
4	1646.9	980	008	0	1647.2	998	005	0	1645.0	873	004	0	1644.8	862	003	0	4
5	1647.0	986	008	0	1647.2	998	005	0	1645.0	873	004	0	1644.8	862	003	0	5
6	1647.0	986	008	0	1647.2	998	005	0	1645.0	873	004	0	1644.7	857	003	0	6
7	1647.0	986	008	0	1647.2	998	005	0	1645.0	873	004	0	1644.7	857	003	0	7
8	1647.0	986	008	0	1647.2	998	005	0	1645.0	873	004	0	1644.7	857	003	0	8
9	1647.1	992	008	0	1647.2	998	005	0	1645.0	873	004	0	1644.7	857	003	0	9
10	1647.1	992	008	0	1647.2	998	005	0	1645.0	873	004	0	1644.7	857	003	0	10
11	1647.1	992	008	0	1647.2	998	005	0	1645.0	873	004	0	1644.7	857	003	0	11
12	1647.1	992	008	0	1647.2	998	005	0	1645.0	873	004	0	1644.7	857	003	0	12
13	1647.2	998	008	0	1647.2	998	005	0	1645.0	873	004	0	1644.7	857	003	0	13
14	1647.2	998	008	0	1647.2	998	005	0	1645.0	873	004	0	1644.6	851	003	0	14
15	1647.2	998	008	0	1647.2	998	004	0	1644.9	868	004	0	1644.6	851	003	0	15
16	1647.2	998	008	0	1647.2	998	004	0	1644.9	868	004	0	1644.6	851	003	0	16
17	1647.2	998	008	0	1647.2	998	004	0	1644.9	868	004	0	1644.6	851	003	0	17
18	1647.2	998	008	0	1647.1	992	004	0	1644.9	868	004	0	1644.6	851	003	0	18
19	1647.2	998	008	0	1647.1	992	004	0	1644.9	868	004	0	1644.5	846	003	0	19
20	1647.2	998	008	0	1647.1	992	004	0	1644.9	868	004	0	1644.5	846	003	0	20
21	1647.2	998	007	0	1646.7	969	004	12	1644.9	868	004	0	1644.5	846	002	0	21
22	1647.2	998	007	0	1646.0	928	004	19	1644.9	868	004	0	1644.5	846	002	0	22
23	1647.2	998	007	0	1645.3	890	004	18	1644.8	862	004	0	1644.5	846	002	0	23
24	1647.2	998	007	0	1645.0	873	004	08	1644.8	862	004	0	1644.5	846	002	0	24
25	1647.2	998	007	0	1645.0	873	004	0	1644.8	862	004	0	1644.5	846	002	0	25
26	1647.2	998	007	0	1645.0	873	004	0	1644.8	862	004	0	1644.5	846	002	0	26
27	1647.2	998	007	0	1645.0	873	004	0	1644.8	862	004	0	1644.5	846	002	0	27
28	1647.2	998	007	0	1645.0	873	004	0	1644.8	862	003	0	1644.5	846	002	0	28
29	1647.2	998	007	0	1645.0	873	004	0	1644.8	862	003	0	1644.5	846	002	0	29
30	1647.2	998	007	0	1645.0	873	004	0	1644.8	862	003	0	1644.5	846	002	0	30
31					1645.0	873	004	0	1644.8	862	003	0					31
TOTAL			230	0			140	57			120	0			080	0	
Inf. Ac. Ft.			46				28				24				16	54 2	
Outf. Ac. Ft.			0 + (28)				113 + (40)				0 + (35)			0 + (32)		113 + (223	
Maximum Mean Daily Inflow			008				006				004				003	006	
Minimum Mean Daily Inflow			007				004				003				002	001	
Storage Change		+18				-125				-11				-16		+206	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1647.2	feet on VARIOUS DAYS	Storage	99.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1640.3	feet on VARIOUS DAYS	Storage	64.0	Acre Feet	D.E. WILSON	Dam Tender	Gage Hts. copied	RAP	TS GLW
Max. Peak Inf.	4.8	C.F.S. from 8:30 P.M. on 4/27/60	to	9:00 P.M. on	4/27/60	R.J. SARASUA	Hydrographer	Storage applied	RAP	TS GLW
Max. Peak Outf.	5.0	C.F.S. from 1:35 P.M. on 7/21/60	to	8:00 P.M. on	7/21/60		Hydrographer	Inf. & Outf. comp.	RAP	TS GLW

REMARKS ( ) INDICATES EVAPORATION LOSSES
{ INDICATES AVERAGE FOR PERIOD

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

In Big Dalton Canyon for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 4.19 Square Miles. Capacity of Reservoir 950.8 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of October 1958 Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow ½	January C.F.S. Outflow	Day
1	1644.5	846	0	0	1612.6	34	03	03	1633.0	373	01	0	1634.0	403	006	0	1
2	1644.5	846	0	0	1612.7	34	02	02	1633.0	373	007	0	1633.9	400	006	0	2
3	1644.5	846	0	0	1612.8	35	02	01	1633.0	373	007	0	1633.9	400	006	0	3
4	1644.5	846	0	0	1612.8	35	01	01	1633.0	373	007	0	1633.9	400	006	0	4
5	1644.4	841	0	0	1630.5	305	136	0	1633.0	373	007	0	1633.9	400	006	0	5
6	1644.4	841	0	0	1630.4	302	0	0	1633.0	373	007	0	1634.0	403	006	0	6
7	1644.4	841	0	0	1630.4	302	0	0	1633.1	376	007	0	1634.1	406	006	0	7
8	1644.4	841	0	0	1625.9	202	0	50	1633.1	376	007	0	1634.2	409	006	0	8
9	1644.4	841	0	0	1625.8	200	0	0	1633.2	379	007	0	1634.2	409	006	0	9
10	1646.0	928	44	0	1625.8	200	0	0	1633.2	379	007	0	1634.3	412	006	0	10
11	1646.0	928	0	0	1625.9	202	01	0	1633.3	382	007	0	1634.4	415	006	0	11
12	1646.0	928	0	0	1635.3	444	122	0	1633.3	382	007	0	1634.4	415	006	0	12
13	1645.9	922	0	0	1634.7	425	0	0	1633.4	385	007	0	1634.4	415	006	0	13
14	1645.9	922	0	0	1629.2	273	0	76	1633.4	385	007	0	1634.4	415	006	0	14
15	1645.9	922	0	0	1626.9	222	0	26	1633.5	388	007	0	1634.4	415	006	0	15
16	1645.9	922	0	0	1613.6	402/	0	92	1633.5	388	007	0	1634.5	418	006	0	16
17	1645.9	922	0	0	1613.3	20	0	10	1633.6	391	007	0	1634.5	418	006	0	17
18	1645.9	922	0	0	1613.0	0	0	10	1633.6	391	007	0	1634.5	418	006	0	18
19	1645.9	922	0	0	1613.0	0	0	0	1633.7	394	007	0	1634.5	418	006	0	19
20	1645.9	922	0	0	1613.0	0	0	0	1633.7	394	007	0	1634.5	418	006	0	20
21	1645.9	922	0	0	1613.0	0	0	0	1633.8	397	007	0	1634.6	422	006	0	21
22	1645.9	922	0	0	1613.0	0	0	0	1633.8	397	007	0	1634.6	422	006	0	22
23	1645.9	922	0	0	1613.0	0	0	0	1633.9	400	007	0	1634.6	422	006	0	23
24	1642.3	733	0	95	1613.0	0	0	0	1633.9	400	007	0	1634.6	422	006	0	24
25	1636.3	479	0	128	1613.0	0	0	0	1633.9	400	007	0	1634.7	425	006	0	25
26	1625.3	190	0	146	1630.6	308	155	0	1633.9	400	007	0	1643.2	778	178	0	26
27	1612.7	34	101/	88	1631.3	326	09	0	1633.9	400	007	0	1643.0	768	01	0	27
28	1612.6	34	12	12	1632.0	344	09	0	1633.9	400	007	0	1642.9	763	0	0	28
29	1612.6	34	07	07	1632.5	358	07	0	1633.9	400	007	0	1642.7	753	0	05	29
30	1612.6	34	05	05	1632.8	367	05	0	1634.0	403	007	0	1642.6	748	0	0	30
31	1612.6	34	041/	04					1634.0	403	007	0	1642.6	748	0	0	31
TOTAL			82	485			452	271			22	0			194	05	
Inf. Ac. Ft.			163				897				44				385	1489	
Outf. Ac. Ft.			962 + (13)				538 + (26)				0 + (08)			10 + (30)		1510 + (77)	
Maximum Mean Daily Inflow			44				155				01				178	178	
Minimum Mean Daily Inflow			0				0				007				0	0	
Storage Change		-812				+333				+36				+345		-98	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1646.0	feet on VARIOUS DAYS	Storage	92.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1613. ±	feet on VARIOUS DAYS	Storage	0	Acre Feet	D.E. WILSON	Dam Tender	Gage Hts. copied	RAP	GLW
Max. Peak Inf.	462.	C.F.S. from 6:30 P.M. on 11/5/60	to	7:30 P.M. on	11/5/60	R.J. SARASUA	Hydrographer	Storage applied	RAP	GLW
Max. Peak Outf.	18.3	C.F.S. from 10:00 A.M. on 10/26/60	to	11:00 A.M. on	10/26/60		Hydrographer	Inf. & Outf. comp.	RAP	GLW

REMARKS { INDICATES AVERAGE FOR PERIOD
( ) INDICATES EVAPORATION LOSSES 1/ INFLOW DUE TO BANK STORAGE
2/ ESTIMATED, STORAGE TABLE IN ERROR. 3/ ESTIMATED, NO RECORD

76D 138N-68B Cib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

In Big Dalton Canyon for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 4.49 Square Miles. Capacity of Reservoir 950.8 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of October, 19 58 Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	1642.6	74.8	0.05	0	1642.9	76.3	0.07	0	1644.8	86.2	0.08	0	1645.2	88.4	0.09	0	1
2	1642.6	74.8	0.05	0	1642.9	76.3	0.07	0	1644.8	86.2	0.08	0	1645.3	89.0	0.09	0	2
3	1642.6	74.8	0.05	0	1643.0	76.8	0.08	0	1644.8	86.2	0.08	0	1645.3	89.0	0.09	0	3
4	1652.5	74.3	0.05	0	1643.0	76.8	0.08	0	1644.8	86.2	0.08	0	1645.3	89.0	0.09	0	4
5	1652.5	74.3	0.05	0	1643.0	76.8	0.08	0	1644.8	86.2	0.08	0	1645.3	89.0	0.09	0	5
6	1652.5	74.3	0.05	0	1643.0	76.8	0.08	0	1644.8	86.2	0.08	0	1645.3	89.0	0.09	0	6
7	1642.6	74.8	0.05	0	1643.0	76.8	0.08	0	1644.8	86.2	0.08	0	1645.4	89.5	0.09	0	7
8	1642.6	74.8	0.05	0	1643.1	77.3	0.08	0	1644.8	86.2	0.08	0	1645.4	89.5	0.09	0	8
9	1642.6	74.8	0.05	0	1643.1	77.3	0.08	0	1644.9	86.8	0.08	0	1645.4	89.5	0.09	0	9
10	1642.6	74.8	0.05	0	1643.1	77.3	0.08	0	1644.9	86.8	0.08	0	1645.4	89.5	0.09	0	10
11	1642.6	74.8	0.05	0	1643.2	77.8	0.08	0	1644.9	86.8	0.08	0	1645.4	89.5	0.09	0	11
12	1642.6	74.8	0.05	0	1643.2	77.8	0.08	0	1644.9	86.8	0.08	0	1645.4	89.5	0.09	0	12
13	1642.6	74.8	0.05	0	1643.2	77.8	0.08	0	1644.9	86.8	0.08	0	1645.4	89.5	0.09	0	13
14	1642.6	74.8	0.05	0	1643.2	77.8	0.08	0	1644.9	86.8	0.08	0	1645.5	90.0	0.09	0	14
15	1642.7	75.3	0.05	0	1643.3	78.3	0.2	0	1644.9	86.8	0.08	0	1645.5	90.0	0.09	0	15
16	1642.7	75.3	0.05	0	1643.3	78.3	0.08	0	1644.9	86.8	0.08	0	1645.5	90.0	0.09	0	16
17	1642.7	75.3	0.05	0	1643.3	78.3	0.08	0	1644.9	86.8	0.08	0	1645.5	90.0	0.09	0	17
18	1642.7	75.3	0.05	0	1643.4	78.8	0.08	0	1644.9	86.8	0.08	0	1645.5	90.0	0.09	0	18
19	1642.7	75.3	0.06	0	1643.4	78.8	0.08	0	1645.0	87.3	0.08	0	1645.5	90.0	0.09	0	19
20	1642.8	75.8	0.06	0	1643.4	78.8	0.07	0	1645.0	87.3	0.08	0	1645.6	90.6	0.09	0	20
21	1642.8	75.8	0.06	0	1643.4	78.8	0.07	0	1645.0	87.3	0.07	0	1645.6	90.6	0.09	0	21
22	1642.8	75.8	0.06	0	1643.4	78.8	0.07	0	1645.0	87.3	0.07	0	1645.6	90.6	0.09	0	22
23	1642.8	75.8	0.06	0	1643.4	78.8	0.07	0	1645.1	87.8	0.07	0	1645.6	90.6	0.08	0	23
24	1642.8	75.8	0.06	0	1643.8	80.9	1.0	0	1645.1	87.8	0.07	0	1645.6	90.6	0.08	0	24
25	1642.8	75.8	0.06	0	1644.6	85.1	2.1	0	1645.1	87.8	0.07	0	1645.6	90.6	0.08	0	25
26	1642.9	76.3	0.06	0	1644.6	85.1	0.2	0	1645.2	88.4	0.07	0	1645.6	90.6	0.08	0	26
27	1642.9	76.3	0.06	0	1644.7	85.7	0.1	0	1645.2	88.4	0.07	0	1645.6	90.6	0.08	0	27
28	1642.9	76.3	0.06	0	1644.7	85.7	0.1	0	1645.2	88.4	0.07	0	1645.6	90.6	0.08	0	28
29					1644.8	86.2	0.1	0	1645.2	88.4	0.07	0	1645.6	90.6	0.08	0	29
30					1644.8	86.2	0.1	0	1645.2	88.4	0.07	0	1645.6	90.6	0.08	0	30
31					1644.8	86.2	0.1	0					1645.7	91.2	0.08	0	31
TOTAL			1.5	0			5.7	0			2.3	0			2.7	0	
Inf. Ac. Ft.			3.0				11.3				4.6				5.4	17.2	
Outf. Ac. Ft.			0 + (1.5)				0 + (1.4)				0 + (2.4)			0 + (2.6)		15.0 + (15.6)	
Maximum Mean Daily Inflow			0.06				2.1				0.08				0.09	17.8	
Minimum Mean Daily Inflow			0.05				0.07				0.07				0.08	0	
Storage Change		+1.5				+9.9				+2.2				+2.8		+6.6	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1646.0	feet on VARIOUS DAYS	Storage	92.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1613. ±	feet on VARIOUS DAYS	Storage	0	Acre Feet	D.E. WILSON	Dam Tender	Gage Hts. copied	RAP GLW
Max. Peak Inf.	462.	C.F.S. from 6:30 P.M. on	11/5/60	to 7:00 P.M. on	11/5/60	R.J. SARASUA	Hydrographer	Storage applied	RAP GLW
Max. Peak Outf.	18.3	C.F.S. from 10:00 A.M. on	10/26/60	to 11:00 A.M. on	10/26/60		Hydrographer	Inf. & Outf. comp.	RAP GLW

REMARKS [INDICATES AVERAGE FOR PERIOD
( ) INDICATES EVAPORATION LOSSES

76D 138N-68B Cib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of BIG DALTON Dam

In Big Dalton Canyon for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 4.49 Square Miles. Capacity of Reservoir 901.3 / 950.8 Ac. Ft. at Spillway Elev. 1706.0 Ft. as of September 61 / October, 19 58

Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	1645.7	91.2	0.08	0	1646.0	92.8	0.06	0	1645.9	92.2	0.05	0	1645.7 1/	47.7	0.04	0	1
2	1645.7	91.2	0.08	0	1646.0	92.8	0.06	0	1645.9	92.2	0.05	0	1645.7	47.7	0.04	0	2
3	1645.7	91.2	0.08	0	1646.0	92.8	0.06	0	1645.9	92.2	0.05	0	1645.7	47.7	0.04	0	3
4	1645.8	91.7	0.08	0	1646.0	92.8	0.06	0	1645.9	92.2	0.05	0	1645.7	47.7	0.04	0	4
5	1645.8	91.7	0.08	0	1646.0	92.8	0.06	0	1645.9	92.2	0.05	0	1645.7	47.7	0.04	0	5
6	1645.8	91.7	0.08	0	1645.9	92.2	0.06	0	1645.9	92.2	0.05	0	1645.7	47.7	0.04	0	6
7	1645.8	91.7	0.08	0	1646.0	92.8	0.06	0	1645.8	91.7	0.05	0	1645.7	47.7	0.04	0	7
8	1645.8	91.7	0.08	0	1646.0	92.8	0.06	0	1645.8	91.7	0.05	0	1645.7	47.7	0.04	0	8
9	1645.8	91.7	0.08	0	1646.0	92.8	0.06	0	1645.8	91.7	0.05	0	1645.7	47.7	0.04	0	9
10	1645.8	91.7	0.08	0	1646.0	92.8	0.06	0	1645.8	91.7	0.05	0	1645.7	47.7	0.04	0	10
11	1645.8	91.7	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	11
12	1645.8	91.7	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	12
13	1645.9	92.2	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	13
14	1645.9	92.2	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	14
15	1645.9	92.2	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	15
16	1645.9	92.2	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	16
17	1645.9	92.2	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	17
18	1645.9	92.2	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	18
19	1645.9	92.2	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	19
20	1645.9	92.2	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	20
21	1645.9	92.2	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	21
22	1645.9	92.2	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	22
23	1646.0	92.8	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	23
24	1646.0	92.8	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	24
25	1646.0	92.8	0.08	0	1645.9	92.2	0.06	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	25
26	1646.0	92.8	0.08	0	1645.9	92.2	0.05	0	1645.8	91.7	0.05	0	1645.6	47.1	0.04	0	26
27	1646.0	92.8	0.08	0	1645.9	92.2	0.05	0	1645.8	91.7	0.04	0	1645.6	47.1	0.04	0	27
28	1646.0	92.8	0.08	0	1645.9	92.2	0.05	0	1645.8	91.7	0.04	0	1645.6	47.1	0.04	0	28
29	1646.0	92.8	0.08	0	1645.9	92.2	0.05	0	1645.8	91.7	0.04	0	1645.6	47.1	0.04	0	29
30	1646.0	92.8	0.08	0	1645.9	92.2	0.05	0	1645.7	91.2	0.04	0	1645.6	47.1	0.04	0	30
31					1645.9	92.2	0.05	0	1645.7	91.2	0.04	0					31
TOTAL			2.4	0			1.8	0			1.5	0			1.2	0	
Inf. Ac. Ft.			4.8				3.6				3.0				2.4	18.7	
Outf. Ac. Ft.			0 + (3.2)				0 + (4.2)				0 + (4.0)			0 + (3.0)		15.0 + (3.0)	
Maximum Mean Daily Inflow			0.08				0.06				0.05				0.04	17.8	
Minimum Mean Daily Inflow			0.08				0.05				0.04				0.04	0	
Storage Change		+1.6				-0.6				-1.0				-0.6		-3.75 4/	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1646.0	feet on VARIOUS DAYS	Storage	92.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1613. ±	feet on VARIOUS DAYS	Storage	0	Acre Feet	D.V. MOIR	Dam Tender	Gage Hts. copied	RAP GLW
Max. Peak Inf.	462.	C.F.S. from 6:30 P.M. on	11/5/60	to 7:00 P.M. on	11/5/60	R.J. SARASUA	Hydrographer	Storage applied	RAP GLW
Max. Peak Outf.	18.3	C.F.S. from 10:00 A.M. on	10/26/60	to 11:00 A.M. on	10/26/60		Hydrographer	Inf. & Outf. comp.	RAP GLW

REMARKS [INDICATES AVERAGE FOR PERIOD
( ) INDICATES EVAPORATION LOSSES
1/ CHANGED TO STORAGE TABLE VIII. 43.5 A.F. LOSS DUE TO SILTATION

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

In ~~On~~ San Dimas Canyon for the Year Ending September 30, 19 60

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1025.3 Ac. Ft. at Spillway Elev. 1462.0 Ft. as of October 19 54

Gage Heights Read daily

Day	October				November				December				January				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1408.8	58.8	0.1	0	1407.7	53.6	0.1	0.3	1408.3	56.4	0.2	0	1410.7	68.2	0.3	0	1
2	1408.8	58.8	0.1	0	1407.7	53.6	0.1	0.3	1408.4	56.9	0.2	0	1410.8	68.8	0.4	0	2
3	1408.9	59.2	0.1	0	1407.6	53.2	0.1	0.3	1408.5	57.4	0.2	0	1410.9	69.3	0.4	0	3
4	1409.0	59.7	0.1	0	1407.5	52.7	0.1	0.3	1408.5	57.4	0.1	0	1411.0	69.8	0.5	0	4
5	1409.0	59.7	0.1	0	1407.4	52.2	0.1	0.3	1408.6	57.8	0.1	0	1411.2	70.9	0.5	0	5
6	1409.1	60.2	0.1	0	1407.3	51.8	0.1	0.3	1408.6	57.8	0.1	0	1411.5	72.4	0.5	0	6
7	1409.1	60.2	0.1	0	1407.2	51.3	0.1	0.3	1408.7	58.3	0.1	0	1411.7	73.5	0.5	0	7
8	1409.2	60.7	0.1	0	1407.1	50.9	0.1	0.3	1408.8	58.8	0.1	0	1411.9	74.6	0.6	0	8
9	1409.2	60.7	0.1	0.2	1407.0	50.4	0.1	0.3	1408.8	58.8	0.1	0	1412.2	76.2	0.6	0	9
10	1409.2	60.7	0.1	0.3	1407.0	50.4	0.1	0.1	1408.9	59.2	0.2	0	1413.3	82.3	3.1	0	10
11	1409.1	60.2	0.1	0.3	1407.1	50.9	0.1	0	1409.0	59.7	0.2	0	1414.1	86.9	2.3	0	11
12	1409.0	59.7	0.1	0.3	1407.1	50.9	0.1	0	1409.0	59.7	0.2	0	1415.6	96.0	4.6	0	12
13	1409.0	59.7	0.1	0.3	1407.2	51.3	0.1	0	1409.1	60.2	0.2	0	1416.3	100.4	2.2	0	13
14	1408.9	59.2	0.1	0.3	1407.3	51.8	0.1	0	1409.1	60.2	0.2	0	1417.0	105.0	2.3	0	14
15	1408.8	58.8	0.1	0.3	1407.4	52.2	0.1	0	1409.2	60.7	0.2	0	1417.7	109.8	2.4	0	15
16	1408.7	58.3	0.1	0.3	1407.4	52.2	0.1	0	1409.3	61.2	0.2	0	1418.2	113.2	1.7	0	16
17	1408.6	57.8	0.2	0.3	1407.5	52.7	0.1	0	1409.3	61.2	0.2	0	1418.6	116.0	1.5	0	17
18	1408.6	57.8	0.2	0.3	1407.6	53.2	0.1	0	1409.4	61.7	0.2	0	1418.9	118.1	1.1	0	18
19	1408.5	57.4	0.2	0.3	1407.7	53.6	0.1	0	1409.5	62.2	0.2	0	1419.2	120.3	1.1	0	19
20	1408.4	56.9	0.2	0.3	1407.7	53.6	0.1	0	1409.5	62.2	0.2	0	1419.5	122.6	1.1	0	20
21	1408.4	56.9	0.2	0.3	1407.8	54.1	0.2	0	1409.6	62.6	0.2	0	1419.8	124.8	1.1	0	21
22	1408.4	56.9	0.2	0.2	1407.8	54.1	0.2	0	1409.7	63.1	0.2	0	1420.1	127.1	1.1	0	22
23	1408.3	56.4	0.2	0.3	1407.9	54.5	0.2	0	1409.8	63.6	0.2	0	1420.4	129.5	1.1	0	23
24	1408.3	56.4	0.2	0.3	1407.9	54.5	0.2	0	1409.9	64.1	0.2	0	1420.6	131.1	1.0	0	24
25	1408.2	55.9	0.2	0.3	1408.0	55.0	0.2	0	1410.1	65.1	0.2	0	1421.1	135.1	2.0	0	25
26	1408.2	55.9	0.2	0.3	1408.1	55.5	0.2	0	1410.1	65.1	0.2	0	1421.5	138.5	1.7	0	26
27	1408.1	55.5	0.2	0.3	1408.1	55.5	0.2	0	1410.2	65.6	0.2	0	1421.8	141.0	1.2	0	27
28	1408.0	55.0	0.2	0.3	1408.2	55.9	0.2	0	1410.3	66.2	0.2	0	1422.1	143.6	1.2	0	28
29	1408.0	55.0	0.2	0.3	1408.2	55.9	0.2	0	1410.4	66.7	0.2	0	1422.4	146.3	1.2	0	29
30	1407.9	54.5	0.2	0.3	1408.3	56.4	0.2	0	1410.5	67.2	0.2	0	1422.6	148.0	1.2	0	30
31	1407.8	54.1	0.2	0.3					1410.6	67.7	0.3	0	1422.9	150.7	1.3	0	31
TOTAL			4.6	6.7			4.0	2.8			5.7	0			41.8	0	
Inf. Ac. Ft.			9.1				7.9				11.3				82.9	111.3	
Outf. Ac. Ft.			13.3				5.6				0				0	18.9	
Maximum Mean Daily Inflow			0.2				0.2				0.3				4.6	4.6	
Minimum Mean Daily Inflow			0.1				0.1				0.1				0.3	0.1	
Storage Change		- 4.2				+ 2.3				+ 11.3				+ 83.0		+ 92.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1437.5	feet	on	4/15/60	Storage	324.7	Acre Feet			
Min. W. S. Elev.	1394.0	feet	on	8/31/60	Storage	5.0	Acre Feet			
Max. Peak Inf.	10.9	C. F. S. from	7:00 P.M. on	2/8/60	to	9:00 P.M. on	2/8/60			
Max. Peak Outf.	5.8	C. F. S. from	on VARIOUS DAYS		to	on				
REMARKS	INDICATES AVERAGE FOR PERIOD									

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
A.R. BLEEMERS	Dam Tender	Gage Hts. copied	TS	RAP GLW
R.J. SARASUA	Hydrographer	Storage applied	TS	RAP GLW
	Hydrographer	Inf. & Outf. comp.	TS	RAP GLW

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

In ~~On~~ San Dimas Canyon for the Year Ending September 30, 19 60

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1025.3 Ac. Ft. at Spillway Elev. 1462.0 Ft. as of October 19 54

Gage Heights Read daily

Day	February				March				April				May				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1423.5	156.2	2.8	0	1432.2	250.5	1.9	0	1436.6	310.6	0.7	0	1432.6	255.6	1.2	0	1
2	1424.4	164.8	4.3	0	1432.4	253.0	1.3	0	1436.7	312.1	0.7	0	1432.8	258.1	1.1	0	2
3	1424.8	168.7	2.0	0	1432.6	255.6	1.1	0	1436.7	312.1	0.6	0	1433.0	260.6	1.0	0	3
4	1425.1	171.6	1.5	0	1432.8	258.1	1.1	0	1436.8	313.6	0.6	0	1433.2	263.2	0.9	0	4
5	1425.4	174.6	1.5	0	1433.0	260.6	1.1	0	1436.9	315.1	0.5	0	1433.4	265.8	0.9	0	5
6	1425.7	177.7	1.5	0	1433.1	261.9	1.1	0	1436.9	315.1	0.4	0	1433.5	267.2	0.9	0	6
7	1426.0	180.7	1.5	0	1433.3	264.5	1.1	0	1437.0	316.6	0.4	0	1433.6	268.5	0.9	0	7
8	1426.6	186.9	3.2	0	1433.5	267.2	1.1	0	1437.0	316.6	0.4	0	1433.7	269.8	0.8	0	8
9	1427.3	193.3	3.2	0	1433.6	268.5	1.1	0	1437.2	318.2	0.4	0	1433.8	271.1	0.7	0	9
10	1427.8	199.7	3.2	0	1433.8	271.1	1.1	0	1437.2	318.2	0.4	0	1433.8	271.1	0.7	0	10
11	1428.1	202.9	1.6	0	1433.9	272.4	1.1	0	1437.2	319.8	0.4	0	1433.9	272.4	0.7	0	11
12	1428.3	205.1	1.4	0	1434.1	275.1	1.1	0	1437.3	321.5	0.4	0	1433.7	269.8	0.7	2.0	12
13	1428.6	208.4	1.1	0	1434.2	276.4	1.0	0	1437.4	323.1	0.4	0	1433.3	264.5	0.7	3.1	13
14	1428.8	210.6	1.1	0	1434.4	279.1	1.0	0	1437.4	323.1	0.4	0	1432.9	259.3	0.7	3.1	14
15	1429.0	212.8	1.1	0	1434.5	280.5	0.8	0	1437.1	318.2	0.4	2.5	1432.5	254.3	0.6	3.1	15
16	1429.2	215.1	1.1	0	1434.6	281.9	0.8	0	1436.7	312.1	0.3	3.7	1432.1	249.3	0.6	3.1	16
17	1429.4	217.4	1.1	0	1434.7	283.2	0.8	0	1436.2	304.5	0.3	3.7	1431.8	245.6	0.6	3.0	17
18	1429.6	219.6	1.1	0	1434.9	285.9	0.8	0	1435.7	297.2	0.3	3.9	1431.3	239.5	0.6	3.1	18
19	1429.8	221.9	1.1	0	1434.9	285.9	0.8	0	1435.2	290.1	0.3	3.9	1430.8	233.6	0.6	3.3	19
20	1430.0	224.2	1.1	0	1435.0	287.3	0.8	0	1434.7	283.2	0.3	3.9	1430.4	228.9	0.5	3.1	20
21	1430.2	226.5	1.1	0	1435.1	288.7	0.8	0	1434.1	275.1	0.3	4.4	1430.0	224.2	0.5	3.1	21
22	1430.3	227.7	1.1	0	1435.2	290.1	0.8	0	1433.4	265.8	0.5	5.2	1429.5	218.5	0.5	3.3	22
23	1430.4	228.9	1.1	0	1435.3	291.6	0.7	0	1432.8	258.1	1.3	5.2	1429.1	213.9	0.5	3.1	23
24	1430.6	231.2	1.1	0	1435.4	293.0	0.7	0	1432.2	250.5	1.1	4.9	1428.7	209.5	0.5	3.1	24
25	1430.8	233.6	1.1	0	1435.6	295.8	0.7	0	1431.5	242.0	0.7	4.9	1428.2	204.0	0.4	3.1	25
26	1431.0	235.9	1.1	0	1435.7	297.2	0.7	0	1430.8	233.6	0.6	4.9	1427.7	198.6	0.4	3.0	26
27	1431.2	238.3	1.1	0	1435.8	298.7	0.8	0	1431.0	235.9	6.3	5.2	1427.0	191.1	0.4	4.6	27
28	1431.5	242.0	1.8	0	1436.1	303.0	2.1	0	1431.8	245.6	6.7	1.8	1426.0	180.7	0.3	5.5	28
29	1431.9	246.8	2.5	0	1436.3	306.0	1.5	0	1432.2	250.5	2.5	0	1425.1	171.6	0.3	5.2	29
30					1436.4	307.5	0.8	0	1432.4	253.0	1.3	0	1424.1	161.9	0.2	4.9	30
31					1436.5	309.0	0.8	0					1423.0	151.6	0.2	4.9	31
TOTAL			48.5	0			31.4	0			29.9	58.1			19.6	70.7	
Inf. Ac. Ft.			96.2				62.3				59.3				38.9	367.9	
Outf. Ac. Ft.			0				0				115.2				1.2	274.3	
Maximum Mean Daily Inflow			4.3				2.1				6.7				1.2	6.7	
Minimum Mean Daily Inflow			1.1				0.7				0.3				0.2	0.1	
Storage Change		+96.1				+62.2				- 56.0				- 10.4		+93.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1437.5	feet	on	4/15/60	Storage	324.7	Acre Feet			
Min. W. S. Elev.	1394.0	feet	on	8/31/60	Storage	5.0	Acre Feet			
Max. Peak Inf.	10.9	C. F. S. from	7:00 P.M. on	2/8/60	to	9:00 P.M. on	2/8/60			
Max. Peak Outf.	5.8	C. F. S. from	on VARIOUS DAYS		to	on				
REMARKS	INDICATES AVERAGE FOR PERIOD									

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
A.R. BLEEMERS	Dam Tender	Gage Hts. copied	RAP	TS GLW
R.J. SARASUA	Hydrographer	Storage applied	RAP	TS GLW
	Hydrographer	Inf. & Outf. comp.	RAP	TS GLW

76D138N-68B Gib 12-57

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

In San Dimas Canyon for the Year Ending September 30, 19 60

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1025.3 Ac. Ft. at Spillway Elev. 1462.0 Ft. as of October 19 54 Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	1422.0	142.7	0.2	4.7	1407.5	52.7	0.1	0.2	1404.9	41.4	0.2	0	1394.5	6.2	0.2	0	1
2	1420.9	133.5	0.2	4.4	1407.5	52.7	0.1	0.2	1405.0	41.8	0.2	0	1394.8	6.9	0.2	0	2
3	1419.9	125.6	0.2	4.4	1407.6	53.2	0.1	0.3	1405.1	42.2	0.2	0	1395.0	7.4	0.2	0	3
4	1418.7	116.7	0.2	4.4	1407.6	53.2	0.1	0.3	1405.2	42.6	0.2	0	1394.6	6.4	0.1	0.4	4
5	1417.5	108.4	0.2	4.4	1407.6	53.2	0.1	0.3	1405.3	43.1	0.2	0	1394.5	6.2	0.1	0.3	5
6	1416.2	99.8	0.2	4.0	1407.5	52.7	0.1	0.3	1405.4	43.5	0.2	0	1394.5	6.2	0.1	0.1	6
7	1415.0	92.3	0.2	4.0	1407.4	52.2	0.1	0.2	1405.5	43.9	0.2	0	1394.5	6.2	0.1	0.2	7
8	1413.6	84.0	0.2	4.0	1407.4	52.2	0.1	0.2	1405.5	43.9	0.2	0	1394.5	6.2	0.1	0.1	8
9	1412.1	75.6	0.2	4.0	1407.4	52.2	0.1	0.2	1405.6	44.3	0.2	0	1394.4	5.9	0.1	0.1	9
10	1410.6	67.7	0.2	4.0	1407.4	52.2	0.1	0.2	1405.7	44.7	0.2	0	1394.4	5.9	0.1	0.1	10
11	1409.1	60.2	0.2	4.0	1407.4	52.2	0.1	0.2	1405.8	45.2	0.2	0	1394.4	5.9	0.1	0.1	11
12	1407.6	53.2	0.2	4.0	1407.3	51.8	0.1	0.1	1405.9	45.6	0.2	0	1394.4	5.9	0.1	0	12
13	1407.3	51.8	0.2	1.4	1407.3	51.8	0.1	0.1	1406.0	46.0	0.2	0	1394.5	6.2	0.1	0	13
14	1407.4	52.2	0.2	0.2	1407.3	51.8	0.1	0.1	1406.0	46.0	0.2	0	1394.5	6.2	0.1	0	14
15	1407.4	52.2	0.2	0.2	1407.2	51.3	0.1	0.1	1406.1	46.4	0.2	0	1394.5	6.2	0.1	0	15
16	1407.5	52.7	0.2	0.2	1407.2	51.3	0.1	0.2	1406.2	46.9	0.2	0	1394.6	6.4	0.1	0	16
17	1407.5	52.7	0.2	0.2	1407.2	51.3	0.1	0.2	1406.3	47.3	0.2	0	1394.8	6.9	0.2	0	17
18	1407.5	52.7	0.2	0.2	1407.1	50.9	0.1	0.2	1406.3	47.3	0.2	0	1394.9	7.1	0.2	0	18
19	1407.6	53.2	0.2	0.2	1407.1	50.9	0.2	0.2	1406.2	46.9	0.2	0.2	1395.0	7.4	0.2	0	19
20	1407.6	53.2	0.2	0.2	1406.6	48.6	0.2	0.9	1405.8	45.2	0.2	0.9	1395.2	7.9	0.2	0	20
21	1407.6	53.2	0.2	0.2	1405.0	41.8	0.2	3.1	1405.4	43.5	0.2	0.9	1395.4	8.4	0.2	0	21
22	1407.6	53.2	0.2	0.2	1404.6	40.1	0.2	1.1	1405.1	42.2	0.2	0.9	1395.5	8.7	0.2	0	22
23	1407.6	53.2	0.1	0.2	1404.2	38.4	0.2	1.1	1404.7	40.5	0.2	0.9	1395.8	9.5	0.2	0	23
24	1407.6	53.2	0.1	0.2	1404.1	38.0	0.2	0.3	1403.1	34.1	0.2	3.5	1395.9	9.7	0.2	0	24
25	1407.6	53.2	0.1	0.2	1404.2	38.4	0.2	0	1400.3	23.8	0.2	5.8	1396.0	10.0	0.2	0	25
26	1407.5	52.7	0.1	0.2	1404.3	38.9	0.2	0	1397.4	14.1	0.2	5.6	1396.1	10.3	0.2	0	26
27	1407.5	52.7	0.1	0.2	1404.4	39.3	0.2	0	1395.6	9.0	0.2	2.9	1396.3	10.9	0.2	0	27
28	1407.5	52.7	0.1	0.2	1404.5	39.7	0.2	0	1395.6	9.0	0.2	0.3	1396.4	11.2	0.2	0	28
29	1407.5	52.7	0.1	0.2	1404.7	40.5	0.2	0	1395.4	8.4	0.2	0.4	1396.6	11.7	0.2	0	29
30	1407.5	52.7	0.1	0.2	1404.8	41.0	0.2	0	1394.1	5.2	0.2	1.5	1396.7	12.0	0.2	0	30
31					1404.8	41.0	0.2	0	1394.2	5.5	0.2	0.1					31
TOTAL			5.2	55.1			4.4	10.3			6.2	24.1			4.7	1.4	
Inf. Ac. Ft.			10.3				8.7				12.3				9.3	4.8.5	
Outf. Ac. Ft.			10.9.3				20.4				47.6				2.8	45.4.6	
Maximum Mean Daily Inflow			0.2				0.2				0.2				0.2	6.7	
Minimum Mean Daily Inflow			0.1				0.1				0.2				0.1	0.1	
Storage Change		-98.9				-11.7				-35.5				+6.5		-46.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1437.5	feet on	4/15/60	Storage	324.7	Acre Feet		
Min. W. S. Elev.	1394.0	feet on	8/31/60	Storage	5.0	Acre Feet		
Max. Peak Inf.	10.9	C.F.S. from	7:00 P.M. on	2/8/60	to	9:00 P.M. on	2/8/60	
Max. Peak Outf.	5.8	C.F.S. from	on VARIOUS DAYS	to		on		
REMARKS	INDICATES AVERAGE FOR PERIOD							

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
A.R. BLEEMERS	Dam Tender	Gage Hts. copied	RAP HRW GLW	
R.J. SARASUA	Hydrographer	Storage applied	RAP HRW GLW	
	Hydrographer	Inf. & Outf. comp.	RAP HRW GLW	

76D138N-68B Gib 12-57

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

In San Dimas Canyon for the Year Ending September 30, 19 61

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1025.3 Ac. Ft. at Spillway Elev. 1462.0 Ft. as of October 19 54 Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1	1396.8	123	0.2	0	1400.3	23.8	0.2	0	1427.7	198.6	0.6	0	1430.6	231.2	0.5	0	1
2	1396.9	126	0.2	0	1400.4	24.1	0.2	0	1427.9	200.7	0.6	0	1430.6	231.2	0.5	0	2
3	1397.1	132	0.2	0	1400.9	25.8	0.8	0	1428.0	201.8	0.6	0	1430.7	232.4	0.5	0	3
4	1397.2	135	0.2	0	1401.5	28.0	1.1	0	1428.2	204.0	0.6	0	1430.8	233.6	0.5	0	4
5	1397.4	141	0.2	0	1414.4	88.7	30.6	0	1428.3	205.1	0.6	0	1430.9	234.7	0.5	0	5
6	1397.5	144	0.2	0	1417.9	111.1	11.3	0	1428.4	206.2	0.6	0	1431.0	235.9	0.5	0	6
7	1397.6	148	0.2	0	1418.2	113.2	1.1	0	1428.5	207.3	0.6	0	1431.0	235.9	0.5	0	7
8	1397.7	151	0.2	0	1418.5	115.3	0.9	0	1428.6	208.4	0.6	0	1431.1	237.1	0.5	0	8
9	1397.9	157	0.2	0	1418.8	117.4	0.9	0	1428.7	209.5	0.6	0	1431.2	238.3	0.5	0	9
10	1398.1	163	0.2	0	1419.0	118.8	0.9	0	1428.8	210.6	0.5	0	1431.3	239.5	0.5	0	10
11	1398.2	167	0.2	0	1419.2	120.3	0.9	0	1428.9	211.7	0.5	0	1431.4	240.7	0.5	0	11
12	1398.3	170	0.2	0	1423.2	153.5	16.7	0	1429.0	212.8	0.5	0	1431.4	240.7	0.5	0	12
13	1398.4	173	0.2	0	1423.5	156.2	1.4	0	1429.1	213.9	0.5	0	1431.5	242.0	0.5	0	13
14	1398.6	180	0.2	0	1423.6	157.2	0.7	0	1429.2	215.1	0.5	0	1431.6	243.2	0.5	0	14
15	1398.7	183	0.2	0	1423.8	159.0	0.7	0	1429.2	215.1	0.5	0	1431.7	244.4	0.5	0	15
16	1398.8	186	0.2	0	1423.9	160.0	0.7	0	1429.3	216.2	0.5	0	1431.7	244.4	0.5	0	16
17	1398.9	190	0.2	0	1424.1	161.9	0.7	0	1429.4	217.4	0.5	0	1431.8	245.6	0.4	0	17
18	1399.0	193	0.2	0	1424.2	162.8	0.7	0	1429.5	218.5	0.5	0	1431.8	246.8	0.4	0	18
19	1399.1	196	0.2	0	1424.4	164.8	0.6	0	1429.6	219.6	0.5	0	1431.9	246.8	0.4	0	19
20	1399.2	200	0.2	0	1424.5	165.8	0.6	0	1429.7	220.8	0.5	0	1432.0	248.0	0.4	0	20
21	1399.3	203	0.2	0	1424.6	166.7	0.6	0	1429.7	220.8	0.5	0	1432.0	248.0	0.4	0	21
22	1399.4	207	0.2	0	1424.7	167.7	0.6	0	1429.8	221.9	0.5	0	1432.1	249.3	0.4	0	22
23	1399.5	210	0.2	0	1424.9	169.6	0.6	0	1429.9	223.1	0.5	0	1432.2	250.5	0.4	0	23
24	1399.6	213	0.2	0	1425.0	170.6	0.6	0	1430.0	224.2	0.5	0	1432.3	251.8	0.4	0	24
25	1399.7	217	0.2	0	1425.1	171.6	0.6	0	1430.0	224.2	0.5	0	1432.4	253.0	0.4	0	25
26	1399.8	220	0.2	0	1427.1	192.2	10.4	0	1430.1	225.4	0.5	0	1435.1	288.7	18.0	0	26
27	1399.9	224	0.2	0	1427.3	194.3	1.1	0	1430.2	226.5	0.5	0	1435.3	291.6	1.4	0	27
28	1400.0	227	0.1	0	1427.4	195.4	0.5	0	1430.3	227.7	0.5	0	1435.4	293.0	1.1	0	28
29	1400.1	230	0.1	0	1427.5	196.4	0.5	0	1430.3	227.7	0.5	0	1435.6	295.8	1.1	0	29
30	1400.1	230	0.1	0	1427.6	197.5	0.6	0	1430.4	228.9	0.5	0	1435.7	297.2	1.1	0	30
31	1400.2	234	0.2	0					1430.5	230.0	0.5	0	1435.9	300.1	1.0	0	31
TOTAL			5.9	0			87.8	0			16.4	0			35.3	0	
Inf. Ac. Ft.			11.7				174.1				32.5				70.0	288.3	
Outf. Ac. Ft.			0				0				0				0	0	
Maximum Mean Daily Inflow			0.2				30.6				0.6				18.0	30.6	
Minimum Mean Daily Inflow			0.1				0.2				0.5				0.4	0.1	
Storage Change		+11.7				+174.1				+32.5				+70.1		+288.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1443.2	feet on	VARIOUS DAYS	Storage	440.0	Acre Feet		
Min. W. S. Elev.	1396.7	feet on	10/1/60	Storage	12.0	Acre Feet		
Max. Peak Inf.	397.	C.F.S. from	7:30 P.M. on	11/5/60	to	8:00 P.M. on	11/5/60	
Max. Peak Outf.	19.5	C.F.S. from	2:36 P.M. on	8/1/61	to	3:30 P.M. on	8/1/61	
REMARKS	INDICATES AVERAGE FOR PERIOD							

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
A.R. BLEEMERS - J.L. REVIS	Dam Tender	Gage Hts. copied	TS GLW	
R.J. SARASUA	Hydrographer	Storage applied	TS GLW	
	Hydrographer	Inf. & Outf. comp.	TS GLW	

76D138N-68B Gb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

In San Dimas Canyon for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 16.2 Square Miles. Capacity of Reservoir 1025.3 Ac. Ft. at Spillway Elev. 1462.0 Ft. as of October, 19 54 Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	1436.0	301.5	0.9	0	1438.6	343.4	0.6	0	1441.5	401.2	0.4	0	1442.5	423.7	0.3	0	1
2	1436.2	304.5	0.9	0	1438.6	343.4	0.6	0	1441.6	403.4	0.4	0	1442.6	426.0	0.3	0	2
3	1436.3	306.0	0.9	0	1438.7	345.2	0.6	0	1441.6	403.4	0.4	0	1442.6	426.0	0.3	0	3
4	1436.4	307.5	0.9	0	1438.8	347.0	0.6	0	1441.6	403.4	0.4	0	1442.6	426.0	0.3	0	4
5	1436.5	309.0	0.9	0	1438.9	348.7	0.6	0	1441.7	405.6	0.4	0	1442.7	428.3	0.3	0	5
6	1436.6	310.6	0.8	0	1439.0	350.5	0.6	0	1441.7	405.6	0.4	0	1442.7	428.3	0.3	0	6
7	1436.7	312.1	0.8	0	1439.1	352.4	0.6	0	1441.8	407.8	0.4	0	1442.8	430.6	0.3	0	7
8	1436.8	313.6	0.8	0	1439.1	352.4	0.6	0	1441.8	407.8	0.4	0	1442.8	430.6	0.3	0	8
9	1436.9	315.1	0.7	0	1439.1	352.4	0.6	0	1441.9	410.0	0.4	0	1442.8	430.6	0.2	0	9
10	1437.0	316.6	0.7	0	1439.2	354.4	0.6	0	1441.9	410.0	0.4	0	1442.8	430.6	0.2	0	10
11	1437.1	318.2	0.7	0	1439.3	356.3	0.6	0	1442.0	412.2	0.4	0	1442.8	430.6	0.2	0	11
12	1437.2	319.8	0.7	0	1439.3	356.3	0.6	0	1442.0	412.2	0.4	0	1442.8	430.6	0.2	0	12
13	1437.3	321.5	0.7	0	1439.4	358.2	0.6	0	1442.0	412.2	0.4	0	1442.8	430.6	0.2	0	13
14	1437.4	323.1	0.7	0	1439.4	358.2	0.6	0	1442.1	414.5	0.4	0	1442.8	430.6	0.2	0	14
15	1437.5	324.7	0.7	0	1439.6	362.1	1.9	0	1442.1	414.5	0.4	0	1442.9	432.9	0.2	0	15
16	1437.6	326.3	0.7	0	1439.7	364.0	1.0	0	1442.1	414.5	0.4	0	1442.9	432.9	0.2	0	16
17	1437.7	327.9	0.7	0	1439.8	365.9	0.6	0	1442.1	414.5	0.4	0	1442.9	432.9	0.2	0	17
18	1437.8	329.6	0.7	0	1439.8	365.9	0.6	0	1442.1	414.5	0.4	0	1442.9	432.9	0.2	0	18
19	1437.9	331.2	0.7	0	1439.9	367.9	0.6	0	1442.2	416.8	0.4	0	1442.9	432.9	0.2	0	19
20	1437.9	331.2	0.7	0	1439.9	367.9	0.6	0	1442.2	416.8	0.4	0	1442.9	432.9	0.2	0	20
21	1438.0	332.8	0.7	0	1440.0	369.8	0.5	0	1442.2	416.8	0.4	0	1443.0	435.2	0.2	0	21
22	1438.1	334.6	0.7	0	1440.1	371.8	0.5	0	1442.3	419.1	0.4	0	1443.0	435.2	0.2	0	22
23	1438.2	336.3	0.7	0	1440.1	371.8	0.5	0	1442.4	421.4	0.4	0	1443.0	435.2	0.2	0	23
24	1438.2	336.3	0.7	0	1440.5	380.0	4.2	0	1442.4	421.4	0.3	0	1443.0	435.2	0.2	0	24
25	1438.3	338.1	0.7	0	1441.0	390.3	5.2	0	1442.4	421.4	0.3	0	1443.0	435.2	0.2	0	25
26	1438.4	339.9	0.7	0	1441.0	390.3	0.9	0	1442.5	423.7	0.3	0	1443.0	435.2	0.2	0	26
27	1438.5	341.6	0.7	0	1441.2	394.7	0.9	0	1442.5	423.7	0.3	0	1443.0	435.2	0.2	0	27
28	1438.5	341.6	0.7	0	1441.3	396.9	0.9	0	1442.5	423.7	0.3	0	1443.0	435.2	0.2	0	28
29					1441.3	396.9	0.9	0	1442.5	423.7	0.3	0	1443.0	435.2	0.2	0	29
30					1441.4	399.1	0.9	0	1442.5	423.7	0.3	0	1443.1	437.6	0.2	0	30
31					1441.5	401.2	0.9	0					1443.1	437.6	0.2	0	31
TOTAL			20.9	0			30.0	0			11.3	0			7.0	0	
Inf. Ac. Ft.			41.5				59.5				22.4				13.9	42.5.6	
Outf. Ac. Ft.			0				0				0				0	0	
Maximum Mean Daily Inflow			0.9				5.2				0.4				0.3	30.6	
Minimum Mean Daily Inflow			0.7				0.5				0.3				0.2	0.1	
Storage Change		+ 41.5				+ 59.6				+ 22.5				+ 13.9		+425.9	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1443.2	feet	on	VARIOUS DAYS	Storage	440.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1396.7	feet	on	10/1/60	Storage	12.0	Acre Feet	J.L. REVIS	Dam Tender	Gage Hts. copied	TS GLW RAP	
Max. Peak Inf.	397.	C.F.S. from	7:30 P.M.	on	11/5/60	to	8:00 P.M.	on	11/5/60	R.J. SARASUA	Hydrographer	Storage applied	TS GLW RAP
Max. Peak Outf.	19.5	C.F.S. from	2:36 P.M.	on	8/1/61	to	3:30 P.M.	on	8/1/61		Hydrographer	Inf. & Outf. comp.	TS GLW RAP

REMARKS ( ) INDICATES AVERAGE FOR PERIOD

76D138N-68B Gb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of SAN DIMAS Dam

In San Dimas Canyon for the Year Ending September 30, 19 61

900.8
Drainage Area 16.2 Square Miles. Capacity of Reservoir 1025.3 Ac. Ft. at Spillway Elev. 1462.0 Ft. as of August / October, 19 54

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	1443.1	437.6	0.1	0	1442.8	341.5 1/	0.5	0	1425.5	114.3	0.2	8.0	1425.0	109.9	0.07	0	1
2	1443.1	437.6	0.1	0	1442.8	341.5	0.5	0	1424.8	108.2	0.2	3.2	1425.0	109.9	0.07	0	2
3	1443.1	437.6	0.1	0	1442.5	335.4	0.5	2.2	1424.8	108.2	0.2	0	1425.0	109.9	0.07	0	3
4	1443.1	437.6	0.1	0	1442.2	329.2	0.4	4.3	1424.8	108.2	0.2	0	1425.0	109.9	0.07	0	4
5	1443.1	437.6	0.1	0	1441.8	321.2	0.4	4.1	1424.9	109.1	0.2	0	1425.0	109.9	0.07	0	5
6	1443.1	437.6	0.1	0	1441.4	313.5	0.4	4.1	1424.9	109.1	0.2	0	1425.0	109.9	0.07	0	6
7	1443.1	437.6	0.1	0	1441.0	305.8	0.4	3.9	1424.9	109.1	0.2	0	1425.0	109.9	0.07	0	7
8	1443.2	440.0	0.1	0	1440.6	298.6	0.4	3.8	1424.9	109.1	0.1	0	1425.0	109.9	0.07	0	8
9	1443.2	440.0	0.1	0	1440.2	291.3	0.4	3.8	1424.9	109.1	0.1	0	1425.0	109.9	0.07	0	9
10	1443.2	440.0	0.1	0	1439.8	284.4	0.4	3.8	1424.9	109.1	0.1	0	1425.0	109.9	0.07	0	10
11	1443.2	440.0	0.1	0	1439.2	274.3	0.4	4.3	1425.0	109.9	0.1	0	1425.0	109.9	0.07	0	11
12	1443.2	440.0	0.1	0	1438.6	264.9	0.4	5.8	1425.0	109.9	0.1	0	1425.0	109.9	0.07	0	12
13	1443.2	440.0	0.1	0	1437.9	254.4	0.4	5.8	1425.0	109.9	0.1	0	1425.0	109.9	0.07	0	13
14	1443.1	437.6	0.1	0	1437.4	247.5	0.4	4.0	1425.0	109.9	0.1	0	1425.0	109.9	0.07	0	14
15	1443.1	437.6	0.1	0	1437.4	247.5	0.4	0.2	1425.0	109.9	0.1	0	1425.0	109.9	0.07	0	15
16	1443.1	437.6	0.1	0	1437.4	247.5	0.4	0.2	1425.0	109.9	0.1	0	1425.0	109.9	0.07	0	16
17	1443.1	437.6	0.1	0	1436.9	240.7	0.4	4.6	1425.0	109.9	0.1	0	1425.0	109.9	0.07	0	17
18	1443.1	437.6	0.1	0	1434.6	211.6	0.4	15.6	1425.0	109.9	0.1	0	1425.0	109.9	0.07	0	18
19	1443.0	435.2	0.1	0	1431.8	178.7	0.4	17.1	1425.0	109.9	0.1	0	1425.0	109.9	0.07	0	19
20	1443.0	435.2	0.1	0	1429.2	150.2	0.4	15.2	1425.0	109.9	0.1	0	1425.0	109.9	0.07	0	20
21	1443.0	435.2	0.09	0	1427.0	128.0	0.4	12.1	1425.0	109.9	0.1	0	1425.0	109.9	0.06	0	21
22	1443.0	435.2	0.09	0	1427.0	128.0	0.4	0	1425.0	109.9	0.1	0	1425.0	109.9	0.06	0	22
23	1443.0	435.2	0.09	0	1427.1	129.0	0.4	0	1425.0	109.9	0.1	0	1425.0	109.9	0.06	0	23
24	1443.0	435.2	0.09	0	1427.1	129.0	0.4	0	1425.0	109.9	0.1	0	1425.0	109.9	0.06	0	24
25	1442.9	432.9	0.09	0	1427.1	129.0	0.4	0	1425.0	109.9	0.1	0	1425.0	109.9	0.06	0	25
26	1442.9	432.9	0.09	0	1427.2	130.0	0.4	0	1425.0	109.9	0.1	0	1425.0	109.9	0.06	0	26
27	1442.9	432.9	0.09	0	1427.2	130.0	0.4	0	1425.0	109.9	0.1	0	1425.0	109.9	0.06	0	27
28	1442.8	430.6	0.09	0	1427.2	130.0	0.4	0	1425.0	109.9	0.1	0	1425.0	109.9	0.06	0	28
29	1442.8	430.6	0.09	0	1427.2	130.0	0.4	0	1425.0	109.9	0.1	0	1425.0	109.9	0.06	0	29
30	1442.8	430.6	0.09	0	1427.2	130.0	0.4	0	1425.0	109.9	0.1	0	1425.0	109.9	0.06	0	30
31					1427.2	130.0	0.4	0	1425.0	109.9	0.1	0					31
TOTAL			2.9	0			12.7	114.9			3.6	11.2			2.0	0	
Inf. Ac. Ft.			5.8				25.2				7.5				4.0	46.8.1	
Outf. Ac. Ft.			0 +(12.7)				227.9 + (8.7)				22.2 +(5.2)			0 +(4.0)		250.1 +30.6	
Maximum Mean Daily Inflow			0.1				0.5				0.2				0.07	30.6	
Minimum Mean Daily Inflow			0.09				0.4				0.1				0.06	0.06	
Storage Change		- 7.0				- 211.5				- 20.1				0		+98.2	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1443.2	feet	on	VARIOUS DAYS	Storage	440.0	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1396.7	feet	on	10/1/60	Storage	12.0	Acre Feet	J.L. REVIS	Dam Tender	Gage Hts. copied	RAP GLW	
Max. Peak Inf.	397.	C.F.S. from	7:30 P.M.	on	11/5/60	to	8:00 P.M.	on	11/5/60	R.J. SARASUA	Hydrographer	Storage applied	RAP GLW
Max. Peak Outf.	19.5	C.F.S. from	2:36 P.M.	on	8/1/61	to	3:30 P.M.	on	8/1/61		Hydrographer	Inf. & Outf. comp.	RAP GLW

REMARKS ( ) INDICATES AVERAGE FOR PERIOD
( ) INDICATES EVAPORATION LOSSES

1/ CHANGED TO STORAGE TABLE IX, 89.1 A.F. LOSS DUE TO SILTATION.

76D138N-68B Gb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

In/On San Dimas Wash for the Year Ending September 30, 1960

Continuous Water Stage Recorder Au

Drainage Area 2.64 Square Miles. Capacity of Reservoir 138.2 Ac. Ft. at Spillway Elev. 1152.5 Ft. as of September 1953 Gage Heights Read at various times

No storage entire season

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	NO	feet on	Storage	Acre Feet	RECORDS COLLECTED BY	COMPUTATIONS ckd. Date
Min. W. S. Elev.	STORAGE	feet on	Storage	Acre Feet	Dam Tender	Gage Hts. copied
Max. Peak Inf.		C. F. S. from	on	to on	R.J. SARASUA Hydrographer	Storage applied RAP GLW
Max. Peak Outf.		C. F. S. from	on	to on	Hydrographer	Inf. & Outf. comp.
REMARKS						

76D138N-68B Gb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

In/On San Dimas Wash for the Year Ending September 30, 1961

Continuous Water Stage Recorder Au

Drainage Area 2.64 Square Miles. Capacity of Reservoir 138.2 Ac. Ft. at Spillway Elev. 1152.5 Ft. as of September 1953 Gage Heights Read at various times

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1			0	0		0	0	0	1136.4	5.2	0	0			0	0	1
2			0	0		0	0	0	1136.4	5.2	0	0			0	0	2
3			0	0		0	0	0	1136.4	5.2	0	0			0	0	3
4			0	0		0	0	0	1136.3	4.9	0	0			0	0	4
5			0	0	1135.1	1.8	0.9	0	1136.3	4.9	0	0			0	0	5
6			0	0	1135.2	2.0	0.3	0	1136.2	4.6	0	0			0	0	6
7			0	0	1134.8	1.3	0	0	1136.2	4.6	0	0			0	0	7
8			0	0	1134.8	1.3	0	0	1136.2	4.6	0	0			0	0	8
9			0	0		POOL	0	0	1136.1	4.2	0	0			0	0	9
10			0	0		POOL	0	0	1136.1	4.2	0	0			0	0	10
11			0	0		POOL	0	0	1136.1	4.2	0	0			0	0	11
12			0	0	1136.2	4.6	2.4	0	1136.0	3.9	0	0			0	0	12
13			0	0	1135.8	3.4	0	0	1136.0	3.9	0	0			0	0	13
14			0	0	1135.6	3.0	0	0	1135.9	3.7	0	0			0	0	14
15			0	0	1135.5	2.7	0	0	1135.9	3.7	0	0			0	0	15
16			0	0	1135.4	2.5	0	0	1135.9	3.7	0	0			0	0	16
17			0	0	1135.2	2.0	0	0	1135.8	3.4	0	0			0	0	17
18			0	0	1135.1 1/	1.8	0	0	1135.8	3.4	0	0			0	0	18
19			0	0	1135.0	1.5	0	0	1135.7	3.2	0	0			0	0	19
20			0	0	1134.9	1.4	0	0	1135.7	3.2	0	0			0	0	20
21			0	0	1134.8	1.3	0	0	1135.7	3.2	0	0			0	0	21
22			0	0	1134.7	1.2	0	0	1135.6 1/	3.0	0	0			0	0	22
23			0	0	1134.6	1.0	0	0	1135.4	2.5	0	0			0	0	23
24			0	0	1134.4	0.8	0	0	1135.2	2.0	0	0			0	0	24
25			0	0	1134.2 1/	0.6	0	0	1135.0 1/	1.5	0	0			0	0	25
26			0	0	1137.1	7.5	3.8	0		POOL	0	0	1138.9	7.1 2/	3.9	0	26
27			0	0	1136.8	6.5	0	0		POOL	0	0	1138.5	5.3	0	0	27
28			0	0	1136.6	5.8	0	0		0	0	0	1138.2	3.9	0	0	28
29			0	0	1136.5	5.5	0	0		0	0	0	1138.0	3.0	0	0	29
30			0	0	1136.4	5.2	0	0		0	0	0	1138.0	3.0	0	0	30
31			0	0						0	0	0	1137.9	2.6 2/	0	0	31
TOTAL			0	0			7.4	0			0	0			3.9	0	
Inf. Ac. Ft.			0				14.7				0				7.7	22.4	
Outf. Ac. Ft.			0				0 + (9.5)				0 + (5.2)				0 + (5.1)	0 + (19.8)	
Maximum Mean Daily Inflow			0				3.8				0				3.9	3.9	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change	0					+ 5.2				- 5.2				+ 2.6		+ 2.6	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1142.8	feet on	7/20/61	Storage	31.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date	
Min. W. S. Elev.	1131.5 +	feet on	VARIOUS DAYS	Storage	0	Acre Feet		Dam Tender	Gage Hts. copied	RAP GLW
Max. Peak Inf.	136.	C. F. S. from	5:30 P.M. on	11/26/60	to	6:00 P.M. on 11/26/60	R.J. SARASUA	Hydrographer	Storage applied	RAP GLW
Max. Peak Outf.	15.0	C. F. S. from	11:30 P.M. on	7/20/61	to	5:00 A.M. on 7/21/61		Hydrographer	Inf. & Outf. comp.	RAP GLW

REMARKS
( ) INDICATES PERCOLATION AND OTHER LOSSES
1/ ESTIMATED GAGE HEIGHTS
2/ ESTIMATE 8.0 A.F. LOSS DUE TO DEBRIS

76D 138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

In / On San Dimas Wash for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 2.64 Square Miles. Capacity of Reservoir 138.2 Ac. Ft. at Spillway Elev. 1152.5 Ft. as of September, 19 53

Gage Heights Read at various times

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	1137.9	26 2/	0	0			0	0	1137.8	22 2/	0	0	1137.6	14 2/	0	0	1
2	1137.9	26	0	0			0	0	1137.8	22	0	0	1137.6	14	0	0	2
3	1137.9	26	0	0			0	0	1137.8	22	0	0	1137.6	14	0	0	3
4	1137.8	22	0	0			0	0	1137.7	18	0	0	1137.6	14	0	0	4
5	1137.8	22	0	0			0	0	1137.7	18	0	0	1137.6	14	0	0	5
6	1137.8	22	0	0			0	0	1137.8	22	02	0	1137.6	14	0	0	6
7	1137.8	22	0	0			0	0	1137.8	22	0	0	1137.6	14	0	0	7
8	1137.7	18	0	0			0	0	1137.8	22	0	0	1137.5	11	0	0	8
9	1137.7	18	0	0			0	0	1137.8	22	0	0	1137.5	11	0	0	9
10	1137.7	18	0	0			0	0	1137.8	22	0	0	1137.5	11	0	0	10
11	1137.7	18	0	0		NO STORAGE	0	0	1137.8	22	0	0	1137.5	11	0	0	11
12	1137.7	18	0	0			0	0	1137.8	22	0	0	1137.4 1/	07	0	0	12
13	1137.7	18	0	0			0	0	1137.8	22	0	0	1137.4 1/	07	0	0	13
14	1137.7	18	0	0			0	0	1137.7	18	0	0	1137.3 1/	03	0	0	14
15	1137.7	18	0	0		2ND	0	0	1137.7	18	0	0	1137.3 1/	03 2/	0	0	15
16	1137.7	18	0	0			0	0	1137.7	18	0	0			0	0	16
17	1137.6	14	0	0			0	0	1137.7	18	0	0			0	0	17
18	1137.6	14	0	0			0	0	1137.6	14	0	0			0	0	18
19	1137.6	14	0	0			0	0	1137.6	14	0	0			0	0	19
20	1137.5	11	0	0			0	0	1137.6	14	0	0			0	0	20
21	1137.4	07	0	0			0	0	1137.6	14	0	0			0	0	21
22	1137.4	07	0	0			0	0	1137.6	14	0	0			0	0	22
23	1137.4	07	0	0			0	0	1137.6	14	0	0			0	0	23
24	1137.3	03	0	0			0	0	1137.6	14	0	0			0	0	24
25		0	0	0	1138.0	30 2/	20	0	1137.6	14	0	0			0	0	25
26		0	0	0	1137.9	26	0	0	1137.6	14	0	0			0	0	26
27		0	0	0	1137.8	22	0	0	1137.6	14	0	0			0	0	27
28		0 2/	0	0	1138.1	35	09	0	1137.6	14	0	0			0	0	28
29					1137.9	26	0	0	1137.6	14	0	0			0	0	29
30					1137.9	26	0	0	1137.6	14 1/	0	0			0	0	30
31					1137.9	26 2/	0	0							0	0	31
TOTAL			0	0			29	0			02	0			0	0	
Inf. Ac. Ft.			0				58				04				0	286	
Outf. Ac. Ft.			0 + (26)				0 + (32)				0 + (16)			0 + (14)	0 + (286)		
Maximum Mean Daily Inflow			0				20				02				0	39	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-26				+26				-12				-14		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1142.8	feet	on	7/20/61	Storage	31.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1131.5±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		Dam Tender	Gage Hts. copied	RAP GLW
Max. Peak Inf.	137.	C. F. S. from	5:30 P.M.	on	11/26/60	to	6:00 P.M. on	11/26/60	R.J. SARASUA	Hydrographer	Storage applied RAP GLW
Max. Peak Outf.	15.0	C. F. S. from	11:30 P.M.	on	7/20/61	to	5:00 A.M. on	7/21/61		Hydrographer	Inf. & Outf. comp. RAP GLW

REMARKS ( ) INDICATES PERCOLATION AND OTHER LOSSES
1/ ESTIMATED GAGE HEIGHTS
2/ ESTIMATE 8.0 A.F. LOSS DUE TO DEBRIS

76D 138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE DIVERSION Dam

In / On San Dimas Wash for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 2.64 Square Miles. Capacity of Reservoir 138.2 Ac. Ft. at Spillway Elev. 1152.5 Ft. as of September, 19 53

Gage Heights Read at various times

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1			0	0		0	0	0	1139.7	108 3/	55	0			0	0	1
2			0	0		0	0	0	1138.9	64	0	0			0	0	2
3			0	0	1137.8	15 3/	13	0	1138.4	41	0	0			0	0	3
4			0	0	1138.7	55	25	0	1138.0	23	0	0			0	0	4
5			0	0	1139.1	75	15	0	1137.5	04 2/	0	0			0	0	5
6			0	0	1139.4	91	13	0			0	0			0	0	6
7			0	0	1139.4	91	09	0			0	0			0	0	7
8			0	0	1139.1	75	0	0			0	0			0	0	8
9			0	0	1138.7	55	0	0			0	0			0	0	9
10			0	0	1138.4	41	0	0			0	0			0	0	10
11			0	0	1137.9	19	0	0			0	0			0	0	11
12			0	0	1138.0	23	12	0			0	0			0	0	12
13			0	0	1138.5	46	21	0			0	0			0	0	13
14			0	0	1138.8	60	17	0			0	0			0	0	14
15			0	0	1138.2	32	0	0			0	0			0	0	15
16	STORAGE		0	0	1137.8	15	0	0	STORAGE		0	0	STORAGE		0	0	16
17			0	0	1138.5	46	25	0			0	0			0	0	17
18			0	0	1140.8	175	110	35			0	0			0	0	18
19			0	0	1142.1	263	110	54			0	0			0	0	19
20	2ND		0	0	1142.2	270	94	78	NO		0	0	2ND		0	0	20
21			0	0	1139.7	108	72	144			0	0			0	0	21
22			0	0	1138.8	60	0	14			0	0			0	0	22
23			0	0	1138.4	41	0	0			0	0			0	0	23
24			0	0	1137.9	19	0	0			0	0			0	0	24
25			0	0	1137.6	08 3/	0	0			0	0			0	0	25
26			0	0	1137.4	0	0	0			0	0			0	0	26
27			0	0	1137.4	0	0	0			0	0			0	0	27
28			0	0	1137.4	0	0	0			0	0			0	0	28
29			0	0	1137.4	0	0	0			0	0			0	0	29
30			0	0	1137.4	0	0	0			0	0			0	0	30
31					1137.4	0	0	0			0	0					31
TOTAL			0	0			536	325			55	0			0	0	
Inf. Ac. Ft.			0				1063				109				0	1458	
Outf. Ac. Ft.			0				645 + (418)				0 + (109)				0	645 + (813)	
Maximum Mean Daily Inflow			0				110				55				0	110	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1142.8	feet	on	7/20/61	Storage	31.3	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1131.5±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		Dam Tender	Gage Hts. copied	RAP GLW
Max. Peak Inf.	137.	C. F. S. from	5:30 P.M.	on	11/26/60	to	6:00 P.M. on	11/26/60	R.J. SARASUA	Hydrographer	Storage applied RAP GLW
Max. Peak Outf.	15.0	C. F. S. from	11:30 P.M.	on	7/20/61	to	5:00 A.M. on	7/21/61		Hydrographer	Inf. & Outf. comp. RAP GLW

REMARKS ( ) INDICATES PERCOLATION AND OTHER LOSSES
3/ ESTIMATE 8.7 A.F. LOSS DUE TO DEBRIS. INCLUDES 8.0 A.F. LOSS PREVIOUSLY NOTED (2/)

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

In / On Puddingstone Creek for the Year Ending September 30, 1960

Continuous Water Stage Recorder Au

Drainage Area 32.1 Square Miles. Capacity of Reservoir 17190 Ac. Ft. at Spillway Elev. 970.0 Ft. as of January, 1941 Gage Heights Read daily

Day	October				November				December				January				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	933.43	5082.0	0	0.1	933.03	4999.7	0	0.1	932.72	4937.8	0.5	0.1	932.71	4935.8	0	0.1	1
2	933.41	5077.9	0	0.1	933.02	4997.6	0	0.1	932.71	4935.8	0.6	0.1	932.70	4933.9	0	0.1	2
3	933.39	5073.8	0	0.1	933.02	4997.6	0.8	0.1	932.70	4933.9	0.2	0.1	932.69	4931.9	0	0.1	3
4	933.38	5071.7	0.5	0.1	933.01	4995.6	0	0.1	932.69	4931.9	0	0.1	932.67	4927.9	0	0.1	4
5	933.36	5067.6	0	0.1	933.00	4993.5	0.2	0.1	932.68	4929.9	0.6	0.1	932.66	4925.9	0	0.1	5
6	933.35	5065.5	0.1	0.1	932.98	4989.5	0.1	0.1	932.67	4927.9	0.3	0.1	932.65	4923.9	0	0.1	6
7	933.33	5061.4	0	0.1	932.97	4987.5	0.4	0.1	932.66	4925.9	0.3	0.1	932.65	4923.9	0.5	0.1	7
8	933.32	5059.4	0	0.1	932.95	4983.6	0	0.1	932.66	4925.9	0.6	0.1	932.64	4921.9	0	0.1	8
9	933.31	5057.3	0	0.1	932.94	4981.6	0.8	0.1	932.65	4923.9	0	0.1	932.64	4921.9	0.5	0.1	9
10	933.30	5055.2	0	0.1	932.92	4977.6	0	0.1	932.65	4923.9	0.9	0.1	932.86	4965.7	22.2	0.1	10
11	933.29	5053.2	0	0.1	932.91	4975.6	0	0.1	932.65	4923.9	0.8	0.1	932.94	4981.6	8.7	0.1	11
12	933.28	5051.1	0	0.1	932.90	4973.6	0	0.1	932.64	4921.9	0	0.1	933.10	5014.1	17.1	0.1	12
13	933.27	5049.1	0.9	0.1	932.89	4971.6	0	0.1	932.62	4918.0	0	0.1	933.09	5012.0	0	0.1	13
14	933.25	5045.0	0.5	0.1	932.89	4971.6	0.6	0.1	932.60	4914.0	0	0.1	933.11	5016.1	3.0	0.1	14
15	933.23	5040.8	0	0.1	932.88	4969.6	0	0.1	932.60	4914.0	0.6	0.1	933.12	5018.2	1.3	0	15
16	933.22	5038.8	0.6	0.1	932.87	4967.7	0	0.1	932.59	4912.0	0	0.1	933.12	5018.2	0.6	0	16
17	933.21	5036.7	0	0.1	932.87	4967.7	1.2	0.1	932.59	4912.0	0.7	0.1	933.11	5016.1	0	0	17
18	933.20	5034.7	0	0.1	932.86	4965.7	0	0.1	932.58	4910.0	0	0.1	933.11	5016.1	0.5	0	18
19	933.19	5032.6	0	0.1	932.85	4963.7	0	0.1	932.57	4908.0	0	0.1	933.10	5014.1	0	0	19
20	933.18	5030.5	0	0.1	932.84	4961.7	0.4	0.1	932.57	4908.0	1.2	0.1	933.09	5012.0	0	0	20
21	933.17	5028.5	0	0.1	932.83	4959.7	0.2	0.1	932.60	4914.0	3.6	0.1	933.09	5012.0	0.5	0	21
22	933.15	5024.4	0	0.1	932.82	4957.7	0.2	0.1	932.60	4914.0	0.6	0.1	933.08	5010.0	0	0	22
23	933.14	5022.3	0.1	0.1	932.81	4955.7	0.2	0.1	932.59	4912.0	0	0.1	933.08	5010.0	0.4	0	23
24	933.13	5020.3	0	0.1	932.80	4953.7	0.4	0.1	932.70	4933.9	11.6	0.1	933.08	5010.0	0.1	0	24
25	933.13	5020.3	0.6	0.1	932.80	4953.7	0.9	0.1	932.77	4947.8	7.8	0.1	933.12	5018.2	4.1	0	25
26	933.12	5018.2	0	0.1	932.78	4949.8	0	0.1	932.77	4947.8	0.7	0.1	933.12	5018.2	0.2	0	26
27	933.11	5016.1	0	0.1	932.77	4947.8	1.0	0.1	932.76	4945.8	0	0.1	933.12	5018.2	0.4	0	27
28	933.11	5016.1	0.8	0.1	932.75	4943.8	0	0.1	932.75	4943.8	0	0.1	933.12	5018.2	0.6	0	28
29	933.08	5010.0	0	0.1	932.75	4943.8	1.6	0.1	932.74	4941.8	0	0.1	933.11	5016.1	0	0	29
30	933.06	5005.8	0	0.1	932.73	4939.8	0	0.1	932.74	4941.8	0.7	0.1	933.10	5014.1	0	0	30
31	933.04	5001.7	0	0.1					932.72	4937.8	0	0.1	933.10	5014.1	0.4	0	31
TOTAL			4.1	3.1			9.0	3.0			32.3	3.1			61.1	1.4	
Inf. Ac. Ft.			8.1				179				64.1				1212	2113	
Outf. Ac. Ft.			6.1 +(86.5)				60 +(73.8)				61 +(59.9)				2.8 +(42.1)	210 +(262.3)	
Maximum Mean Daily Inflow			0.9				1.6				11.6				22.2	22.2	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			-84.4				-61.9				-2.0				+76.3	-720	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	933.45	feet	on	10/1/59	Storage	5086.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	930.04	feet	on	9/21 & 9/22/60	Storage	4424.1	Acre Feet	F.A. POLLARD	Dam Tender	Gage Hts. copied	RAP	TS
Max. Peak Inf.	148.0	C.F.S. from	1:00 A.M.	on	1/12/60	to	2:00 A.M.	on	1/12/60	R.J. SARASUA	Hydrographer	Storage applied	RAP	TS
Max. Peak Outf.	0.1	C.F.S. from		on	VARIOUS DAYS	to		on			Hydrographer	Inf. & Outf. comp.	RAP	TS

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
INFLOW, DURING PERIODS OF NO RAIN, DUE TO IRRIGATION WASTE

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

In / On Puddingstone Creek for the Year Ending September 30, 1960

Continuous Water Stage Recorder Au

Drainage Area 32.1 Square Miles. Capacity of Reservoir 17190 Ac. Ft. at Spillway Elev. 970.0 Ft. as of January, 1941 Gage Heights Read daily

Day	February				March				April				May				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	933.28	5051.1	18.75	0.05	933.37	5069.6	1.34	0.04	933.12	5018.2	0	0.03	932.90	4973.6	0	0.04	1
2	933.31	5057.3	3.55	0.05	933.36	5067.6	0	0.04	933.11	5016.1	0.03	0.03	932.89	4971.6	0	0.04	2
3	933.30	5055.2	0	0.05	933.35	5065.5	0	0.04	933.10	5014.1	0.23	0.03	932.86	4969.6	0	0.04	3
4	933.30	5055.2	0.45	0.05	933.35	5065.5	0.53	0.03	933.08	5010.0	0	0.03	932.87	4967.7	0	0.04	4
5	933.29	5053.2	0	0.05	933.34	5063.5	0	0.03	933.06	5005.8	0	0.03	932.86	4965.7	0	0.04	5
6	933.29	5053.2	0.25	0.05	933.34	5063.5	0.43	0.03	933.05	5003.8	0	0.03	932.84	4961.7	0	0.04	6
7	933.28	5051.1	0	0.04	933.33	5061.4	0	0.03	933.03	4999.7	0	0.03	932.83	4959.7	0.14	0.04	7
8	933.39	5073.8	11.44	0.04	933.32	5059.4	0	0.03	933.02	4997.6	0	0.03	932.81	4955.7	0	0.04	8
9	933.41	5077.9	2.54	0.04	933.32	5059.4	0.43	0.03	933.00	4993.5	0	0.03	932.80	4953.7	0.14	0.04	9
10	933.43	5082.0	2.74	0.04	933.31	5057.3	0	0.03	932.99	4991.5	0	0.04	932.78	4949.8	0	0.04	10
11	933.43	5082.0	0.74	0.04	933.30	5055.2	0	0.03	932.99	4991.5	0.74	0.04	932.76	4945.8	0	0.04	11
12	933.42	5079.9	0	0.04	933.30	5055.2	0.33	0.03	932.98	4989.5	0	0.04	932.74	4941.8	0	0.04	12
13	933.41	5077.9	0	0.04	933.29	5053.2	0	0.03	932.96	4985.5	0	0.04	932.72	4937.8	0	0.04	13
14	933.40	5075.8	0	0.04	933.28	5051.1	0	0.03	932.95	4983.6	0	0.04	932.71	4935.8	0	0.04	14
15	933.39	5073.8	0	0.04	933.27	5049.1	0	0.03	932.93	4979.6	0	0.04	932.69	4931.9	0	0.04	15
16	933.38	5071.7	0	0.04	933.26	5047.0	0	0.03	932.92	4977.6	0.04	0.04	932.68	4929.9	0	0.04	16
17	933.37	5069.6	0	0.04	933.25	5045.0	0	0.03	932.90	4973.6	0	0.04	932.66	4925.9	0	0.04	17
18	933.36	5067.6	0	0.04	933.23	5040.8	0	0.03	932.88	4969.6	0	0.04	932.65	4923.9	0	0.04	18
19	933.35	5065.5	0	0.04	933.22	5038.8	0.03	0.03	932.87	4967.7	0.14	0.04	932.62	4918.0	0	0.04	19
20	933.34	5063.5	0	0.04	933.21	5036.7	0	0.03	932.85	4963.7	0	0.04	932.60	4914.0	0	0.04	20
21	933.33	5061.4	0	0.04	933.20	5034.7	0	0.03	932.84	4961.7	0.04	0.04	932.58	4910.0	0	0.04	21
22	933.33	5061.4	0.64	0.04	933.19	5032.6	0	0.03	932.82	4957.7	0	0.04	932.56	4906.0	0	0.04	22
23	933.32	5059.4	0	0.04	933.18	5030.5	0	0.03	932.80	4953.7	0	0.04	932.54	4902.1	0	0.04	23
24	933.30	5055.2	0	0.04	933.17	5028.5	0	0.03	932.78	4949.8	0	0.04	932.52	4898.1	0	0.04	24
25	933.29	5053.2	0	0.04	933.16	5026.4	0	0.03	932.77	4947.8	0.04	0.04	932.50	4894.1	0	0.04	25
26	933.29	5053.2	0.24	0.04	933.15	5024.4	0	0.03	932.75	4943.8	0	0.04	932.48	4890.1	0	0.04	26
27	933.28	5051.1	0	0.04	933.16	5026.4	1.63	0.03	932.95	4983.6	20.14	0.04	932.47	4888.1	0.34	0.04	27
28	933.32	5059.4	4.74	0.04	933.17	5028.5	1.63	0.03	932.94	4981.6	0	0.04	932.45	4884.2	0	0.04	28
29	933.36	5067.6	4.44	0.04	933.17	5028.5	0.63	0.03	932.93	4979.6	0	0.04	932.43	4880.2	0	0.04	29
30					933.15	5024.4	0	0.03	932.92	4977.6	0	0.04	932.41	4876.2	0	0.04	30
31					933.14	5022.3	0	0.03					932.40	4874.2	0	0.04	31
TOTAL			50.52	1.22			6.98	0.96			21.40	1.11			0.62	1.24	
Inf. Ac. Ft.			100.2				13.8				42.4				1.2	3.68.9	
Outf. Ac. Ft.			2.4 +(44.3)				1.9 +(57.1)				2.2 +(84.9)				2.5 +(102.1)	3.0 +(55.0.7)	
Maximum Mean Daily Inflow			18.75				1.63				20.14				0.34	22.2	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change			+53.5				-45.3				-44.7				-103.4	-211.9	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	933.45	feet	on	10/1/59	Storage	5086.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	930.04	feet	on	9/21 & 9/22/60	Storage	4424.1	Acre Feet	F.A. POLLARD	Dam Tender	Gage Hts. copied	RAP	TS
Max. Peak Inf.	148.0	C.F.S. from	1:00 A.M.	on	1/12/60	to	2:00 A.M.	on	1/12/60	R.J. SARASUA	Hydrographer	Storage applied	RAP	TS
Max. Peak Outf.	0.1	C.F.S. from		on	VARIOUS DAYS	to		on			Hydrographer	Inf. & Outf. comp.	RAP	TS

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
INFLOW, DURING PERIODS OF NO RAIN, DUE TO IRRIGATION WASTE

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

~~In~~ On Puddingstone Creek for the Year Ending September 30, 19 60

Continuous Water Stage Recorder Au

Drainage Area 32.1 Square Miles. Capacity of Reservoir 17190 Ac. Ft. at Spillway Elev. 970.0 Ft. as of January, 19 41

Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	932.38	4870.2	0	0.04	931.79	4754.4	0	0.04	931.08	4618.0	0	0.04	930.42	4494.8	0	0.04	1
2	932.36	4866.3	0	0.04	931.76	4748.6	0	0.04	931.05	4612.2	0	0.04	930.40	4491.1	0	0.04	2
3	932.35	4864.3	0	0.04	931.74	4744.8	0	0.04	931.03	4608.4	0	0.04	930.38	4487.3	0	0.04	3
4	932.33	4860.3	0	0.04	931.72	4740.9	0	0.04	931.00	4602.6	0	0.04	930.37	4485.5	0.74	0.04	4
5	932.32	4858.3	0	0.04	931.70	4737.1	0	0.04	930.98	4598.9	0	0.04	930.34	4479.9	0	0.04	5
6	932.31	4856.3	0	0.04	931.67	4731.3	0	0.04	930.96	4595.2	0	0.04	930.32	4476.2	0	0.04	6
7	932.30	4854.3	0	0.04	931.64	4725.6	0	0.04	930.94	4591.4	0	0.04	930.30	4472.5	0	0.04	7
8	932.28	4850.4	0	0.04	931.62	4721.7	0	0.04	930.92	4587.7	0	0.04	930.28	4468.8	0	0.04	8
9	932.27	4848.4	0.24	0.04	931.60	4717.9	0	0.04	930.89	4582.2	0	0.04	930.26	4465.0	0	0.04	9
10	932.25	4844.4	0	0.04	931.58	4714.1	0	0.04	930.87	4578.4	0	0.04	930.24	4461.3	0	0.04	10
11	932.23	4840.4	0	0.04	931.56	4710.2	0	0.04	930.86	4576.6	0.54	0.04	930.22	4457.6	0	0.04	11
12	932.22	4838.4	0.24	0.04	931.53	4704.4	0	0.04	930.84	4572.9	0	0.04	930.20	4453.9	0	0.04	12
13	932.20	4834.5	0	0.04	931.51	4700.6	0	0.04	930.82	4569.1	0	0.04	930.18	4450.2	0	0.04	13
14	932.18	4830.5	0	0.04	931.49	4696.7	0	0.04	930.80	4565.4	0	0.04	930.16	4446.4	0	0.04	14
15	932.16	4826.5	0	0.04	931.46	4691.0	0	0.04	930.77	4559.8	0	0.04	930.15	4444.6	0.24	0.04	15
16	932.14	4822.5	0	0.04	931.44	4687.1	0	0.04	930.75	4556.1	0	0.04	930.13	4440.9	0	0.04	16
17	932.12	4818.6	0	0.04	931.42	4683.3	0	0.04	930.73	4552.4	0	0.04	930.12	4439.0	0.14	0.04	17
18	932.10	4814.6	0	0.04	931.39	4677.5	0	0.04	930.71	4548.7	0	0.04	930.10	4435.3	0	0.04	18
19	932.08	4810.6	0	0.04	931.37	4673.7	0	0.04	930.69	4545.0	0	0.04	930.07	4429.7	0	0.04	19
20	932.05	4804.6	0	0.04	931.35	4669.8	0	0.04	930.67	4541.3	0	0.04	930.05	4426.0	0	0.04	20
21	932.03	4800.7	0.14	0.04	931.33	4666.0	0	0.04	930.65	4537.5	0	0.04	930.04	4424.1	0	0.04	21
22	932.00	4794.7	0	0.04	931.30	4660.2	0	0.04	930.62	4532.0	0	0.04	930.08	4431.6	8.6	0.04	22
23	931.98	4790.9	0	0.04	931.28	4656.4	0	0.04	930.61	4530.1	0.24	0.04	930.37	4485.5	29.8	0.04	23
24	931.96	4787.0	0	0.04	931.26	4652.5	0	0.04	930.59	4526.4	0	0.04	930.73	4552.4	35.2	0.04	24
25	931.94	4783.2	0	0.04	931.24	4648.7	0	0.04	930.57	4522.7	0	0.04	930.87	4578.4	11.6	0.04	25
26	931.91	4777.4	0	0.04	931.21	4642.9	0	0.04	930.55	4518.9	0	0.04	930.85	4574.7	0	0.04	26
27	931.89	4773.6	0	0.04	931.19	4639.1	0	0.04	930.53	4515.2	0	0.04	930.83	4571.0	0	0.04	27
28	931.86	4767.8	0	0.04	931.17	4635.3	0	0.04	930.51	4511.5	0	0.04	930.94	4591.4	20.9	0.04	28
29	931.83	4762.0	0	0.04	931.15	4631.4	0	0.04	930.49	4507.8	0	0.04	931.39	4677.5	47.3	0.04	29
30	931.81	4758.2	0	0.04	931.13	4627.6	0	0.04	930.47	4504.1	0	0.04	932.23	4840.4	79.9	0.04	30
31					931.10	4621.8	0	0.04	930.45	4500.4	0	0.04					31
TOTAL			0.62	1.20			0	1.24			0.78	1.24			234.42	1.20	
Inf. Ac. Ft.			1.2				0				1.5				4650	8366	
Outf. Ac. Ft.			24+(114.9)				25+(134.0)				25+(120.5)				24+(122.6)	3987+(1042.7)	
Maximum Mean Daily Inflow			0.24				0				0.54				79.9	79.9	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change	-116.0				-136.4				-121.4				+340.0			-245.7	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	933.45	feet	on	10/1/59	Storage	5086.1	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	930.04	feet	on	9/21 & 9/22/60	Storage	4424.1	Acre Feet	F.A. POLLARD	Dam Tender	Gage Hts. copied	RAP	GLW
Max. Peak Inf.	148.0	C.F.S. from	1:00 A.M.	on	1/12/60	to	2:00 A.M.	on	1/12/60	R.J. SARASUA	Hydrographer	Storage applied	RAP	GLW
Max. Peak Outf.	0.1	C.F.S. from	on VARIOUS DAYS	to				on			Hydrographer	Inf. & Outf. comp.	RAP	GLW

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
INFLOW, DURING PERIODS OF NO RAIN, DUE TO IRRIGATION WASTE
INFLOW, FROM 9/21/60 THROUGH 9/30/60, M.W.D. PURCHASED WATER

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

■ On Puddingstone Creek for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 32.1 Square Miles. Capacity of Reservoir 17,190. Ac. Ft. at Spillway Elev. 970.0 Ft. as of January, 19 41

Gage Heights Read daily

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1	933.10	5014.1	104.4	0.04	955.32	11118	1130.5	0.05	951.20	9732.4	0	0.15	927.70	4010.0	0.34	0.04	1
2	934.06	5212.1	111.0	0.04	956.08	11388	5152.2	0.05	951.04	9680.9	0	25.2	927.69	4008.3	0	0.04	2
3	935.03	5418.8	111.0	0.04	956.99	11718	4175.3	0.05	950.00	9353.5	3.60	168.1	927.68	4006.6	0	0.04	3
4	935.93	5616.1	110.0	0.04	957.42	11877	4.82.9	0.05	948.37	8856.4	0	241.0	927.67	4004.9	0	0.04	4
5	936.76	5806.8	105.2	0.04	957.43	11881	1.3.40	0.05	946.71	8366.5	0	239.0	927.66	4003.2	0	0.04	5
6	937.48	5967.1	90.6	0.04	957.51	11910	7.15.15	0.05	944.94	7863.0	1.70	254.4	927.66	4003.2	0.44	0.04	6
7	938.07	6103.8	74.3	0.04	957.49	11903	3	0.05	943.07	7353.9	2.20	258.0	927.66	4003.2	0.44	0.04	7
8	938.67	6246.0	82.3	0.04	957.47	11895	9	0.05	941.16	6857.8	5.40	255.0	927.65	4001.5	0	0.04	8
9	939.45	6433.6	105.0	0.04	957.45	11888	5	0.05	939.21	6375.3	8.10	251.0	927.64	3999.8	0	0.04	9
10	940.53	6699.6	140.0	0.04	957.43	11881	1	0.05	937.16	5893.2	3.40	246.0	927.64	3999.8	0.44	0.04	10
11	941.61	6972.9	150.0	0.04	957.01	11725	7	7.91	935.09	5431.9	8.70	241.0	927.64	3999.8	0.44	0.04	11
12	942.56	7219.6	140.0	0.04	956.56	11562	5	6.80	932.92	4977.6	1.30	230.0	927.64	3999.8	0.44	0.04	12
13	943.45	7456.1	130.1	0.04	956.32	11475	5	1.30	930.67	4541.3	5.50	225.0	927.64	3999.8	0.44	0.04	13
14	944.32	7692.8	131.1	0.04	956.04	11374	0	7.94	928.27	4108.4	3.10	221.0	927.64	3999.8	0.44	0.04	14
15	945.12	7913.4	130.6	0.04	955.75	11341	8186.8	203.2	927.71	4011.7	1.30	49.8	927.64	3999.8	0.34	0.04	15
16	945.81	8108.1	111.0	0.04	955.53	11192	6	1980	927.72	4013.4	1.54	0.34	927.63	3998.1	0	0.04	16
17	946.42	8282.8	94.8	0.04	954.95	10987	3198.0	291.0	927.72	4013.4	0.64	0.34	927.63	3998.1	0.44	0.04	17
18	946.97	8441.5	90.6	0.04	953.84	10603	9102.7	290.0	927.72	4013.4	0.84	0.34	927.62	3996.4	0	0.04	18
19	947.56	8615.3	100.1	0.04	952.14	10036	2	287.0	927.73	4015.1	1.54	0.34	927.61	3994.7	0	0.04	19
20	948.20	8805.2	106.2	0.04	951.26	9751	7	140.0	927.73	4015.1	0.50	0.10	927.61	3994.7	0.34	0.04	20
21	948.75	8970.8	96.6	0.04	951.25	9748	5	0.15	927.73	4015.1	0.50	0.10	927.60	3993.0	0	0.04	21
22	949.25	9122.9	86.2	0.04	951.24	9745	3	0.15	927.73	4015.1	0.50	0.10	927.60	3993.0	0.34	0.04	22
23	949.70	9261.3	81.4	0.04	951.22	9738	6	0.15	927.73	4015.1	0.50	0.10	927.60	3993.0	0.44	0.04	23
24	950.24	9429.0	93.9	0.04	951.21	9735	6	0.15	927.73	4015.1	0.40	0.10	927.59	3991.3	0	0.04	24
25	950.78	9598.8	100.6	0.04	951.20	9732	4	0.15	927.73	4015.1	0.40	0.10	927.62	3996.4	2.64	0.04	25
26	951.36	9783.9	104.7	0.04	951.25	9748	5	9.40	927.73	4015.1	0.50	0.10	927.80	4027.0	15.74	0.04	26
27	951.97	9980.3	112.0	0.04	951.24	9745	3	0.15	927.73	4015.1	0.50	0.10	927.80	4027.0	0.34	0.04	27
28	952.64	10201.2	123.3	0.04	951.23	9742	1	0.15	927.71	4011.7	0	0.04	927.80	4027.0	0.34	0.04	28
29	953.34	10434.9	129.0	0.04	951.22	9738	6	0.15	927.71	4011.7	0.54	0.04	927.79	4025.3	0	0.04	29
30	954.00	10658.0	129.0	0.04	951.21	9735	6	0.15	927.70	4010.0	0	0.04	927.79	4025.3	0.44	0.04	30
31	954.64	10879.8	122.7	0.04					927.70	4010.0	0.34	0.04	927.78	4023.6	0	0.04	31
TOTAL			3397.7	1.24			13418	51824.8			53.54	2906.97			24.82	1.24	
Inf. Ac. Ft.			6739.2				2661.5				106.2				49.2	9566.1	
Outf. Ac. Ft.			25+(697.3)				3619.4+(186.3)				5765.9+(65.9)				25+(33.1)	9390.3+(982.6)	
Maximum Mean Daily Inflow			150.0				1980				0.54				15.74	198.0	
Minimum Mean Daily Inflow			74.3				0				0				0	0	
Storage Change	+6039.4				-1144.2				-5725.6				+136			-816.8	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	957.51	feet	on	11/6 & 7/60	Storage	11911	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	926.75	feet	on	5/16 & 17/61	Storage	3850.	Acre Feet	F.A. POLLARD	Dam Tender	Gage Hts. copied	TS	RAP
Max. Peak Inf.	179.	C.F.S. from	5:40 A.M.	on	11/6/60	to	6:10 A.M.	on	11/6/60	R.J. SARASUA	Hydrographer	Storage applied	TS	RAP
Max. Peak Outf.	292.	C.F.S. from	3:54 P.M.	on	11/16/60	to	12:00 MID.	on	11/16/60		Hydrographer	Inf. & Outf. comp.	TS	RAP

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES.
V INFLOW DUE TO BANK STORAGE RETURN.
INFLOW, DURING OCTOBER AND 1290.0 CFS IN NOVEMBER, MWD PURCHASED WATER. ALL OTHER INFLOW, DURING PERIODS OF NO RAIN, DUE TO IRRIGATION WASTE.

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 1961

Drainage Area 32.1 Square Miles. Capacity of Reservoir 17,190. Ac. Ft. at Spillway Elev. 970.0 Ft. as of January, 1941

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	927.78	4023.6	0.34	0.04	927.56	3986.2	0	0.04	927.41	3960.6	0	0.04	926.99	3889.2	0	0.04	1
2	927.78	4023.6	0.24	0.04	927.56	3986.2	0.44	0.04	927.40	3958.9	0	0.04	926.98	3887.5	0.04	0.04	2
3	927.77	4021.9	0	0.04	927.55	3984.5	0	0.04	927.39	3957.2	0	0.04	926.97	3885.8	0	0.04	3
4	927.77	4021.9	0.44	0.04	927.55	3984.5	0.44	0.04	927.38	3955.5	0	0.04	926.96	3884.2	0	0.04	4
5	927.76	4020.2	0	0.04	927.54	3982.8	0	0.04	927.37	3953.8	0	0.04	926.95	3882.6	0	0.04	5
6	927.75	4018.5	0	0.04	927.54	3982.8	0.54	0.04	927.36	3952.1	0	0.04	926.94	3880.9	0	0.04	6
7	927.75	4018.5	0.44	0.04	927.52	3979.4	0	0.04	927.35	3950.4	0	0.04	926.92	3877.6	0	0.04	7
8	927.74	4016.8	0	0.04	927.51	3977.7	0	0.04	927.33	3947.0	0	0.04	926.90	3874.3	0	0.04	8
9	927.74	4016.8	0.34	0.04	927.50	3976.0	0	0.04	927.32	3945.3	0	0.04	926.88	3871.0	0	0.04	9
10	927.73	4015.1	0	0.04	927.49	3974.2	0	0.04	927.31	3943.6	0	0.04	926.87	3869.4	0.34	0.04	10
11	927.73	4015.1	0.34	0.04	927.48	3972.5	0	0.04	927.30	3941.9	0	0.04	926.85	3866.0	0	0.04	11
12	927.72	4013.4	0	0.04	927.47	3970.8	0	0.04	927.28	3938.5	0	0.04	926.83	3862.8	0	0.04	12
13	927.72	4013.4	0.34	0.04	927.46	3969.1	0	0.04	927.26	3935.1	0	0.04	926.80	3857.8	0	0.04	13
14	927.71	4011.7	0	0.04	927.46	3969.1	0.34	0.04	927.25	3933.4	0	0.04	926.78	3854.5	0	0.04	14
15	927.70	4010.0	0	0.04	927.50	3976.0	3.94	0.04	927.23	3930.0	0	0.04	926.77	3852.8	0.24	0.04	15
16	927.70	4010.0	0.44	0.04	927.49	3974.2	0	0.04	927.22	3928.3	0.14	0.04	926.75	3849.6	0	0.04	16
17	927.69	4008.3	0	0.04	927.49	3974.2	0.34	0.04	927.21	3926.6	0	0.04	927.03	3895.9	26.1	0.04	17
18	927.68	4006.6	0	0.04	927.48	3972.5	0	0.04	927.19	3923.2	0	0.04	927.59	3991.3	48.4	0.04	18
19	927.67	4004.9	0	0.04	927.47	3970.8	0	0.04	927.17	3919.8	0	0.04	928.12	4082.1	48.4	0.04	19
20	927.66	4003.2	0	0.04	927.46	3969.1	0	0.04	927.16	3918.0	0	0.04	928.63	4171.5	49.2	0.04	20
21	927.65	4001.5	0	0.04	927.45	3967.4	0	0.04	927.15	3916.3	0	0.04	929.12	4257.9	49.2	0.04	21
22	927.64	3999.8	0	0.04	927.44	3965.7	0	0.04	927.15	3916.3	0.64	0.04	929.62	4348.1	50.0	0.04	22
23	927.63	3998.1	0	0.04	927.43	3964.0	0	0.04	927.13	3912.9	0	0.04	930.12	4439.0	50.0	0.04	23
24	927.62	3996.4	0	0.04	927.45	3967.4	2.24	0.04	927.12	3911.2	0	0.04	930.58	4524.5	50.0	0.04	24
25	927.60	3993.0	0	0.04	927.45	3967.4	0.54	0.04	927.10	3907.8	0	0.04	930.92	4587.7	32.2	0.04	25
26	927.60	3993.0	0.54	0.04	927.44	3965.7	0	0.04	927.08	3904.4	0	0.04	930.90	4584.0	0	0.04	26
27	927.59	3991.3	0	0.04	927.45	3967.4	1.04	0.04	927.06	3901.0	0	0.04	930.88	4580.3	0	0.04	27
28	927.57	3987.9	0	0.04	927.44	3965.7	0	0.04	927.04	3897.6	0	0.04	930.86	4576.6	0	0.04	28
29					927.43	3964.0	0	0.04	927.03	3895.9	0.04	0.04	930.84	4572.9	0	0.04	29
30					927.43	3964.0	0.44	0.04	927.01	3892.5	0	0.04	930.82	4569.1	0	0.04	30
31					927.42	3962.3	0	0.04					930.80	4565.4	0	0.04	31
TOTAL			3.46	1.12			10.30	1.24			0.82	1.20			404.12	1.24	
Inf. Ac. Ft.			6.9				20.4				1.6				801.5		10386.5
Outf. Ac. Ft.			2.2+(40.3)				25+(43.6)				2.4+(69.0)				25+(126.1)		9399.9+(1261.6)
Maximum Mean Daily Inflow			0.54				3.94				0.64				50.0		198.0
Minimum Mean Daily Inflow			0				0				0				0		0
Storage Change		-35.7				-25.6				-69.8				+672.9			-275.0

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	957.51	feet	on 11/6 & 7/60	Storage	11911.	Acre Feet		
Min. W. S. Elev.	926.75	feet	on 5/16 & 17/61	Storage	3850.	Acre Feet		
Max. Peak Inf.	179.	C.F.S. from	5:40 A.M. on	11/6/60	to	6:10 A.M. on	11/6/60	
Max. Peak Outf.	292.	C.F.S. from	3:54 P.M. on	11/16/60	to	12:00 MID. on	11/16/60	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
F.A. POLLARD	Dam Tender	Gage Hts. copied	TS RAP	
R.J. SARASUA	Hydrographer	Storage applied	RAP TS	
	Hydrographer	Inf. & Outf. comp.	TS RAP	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
INFLOW, MAY 17 THROUGH 25, MWD PURCHASED WATER. ALL OTHER INFLOW, DURING PERIODS OF NO RAIN, DUE TO IRRIGATION WASTE.

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of PUDDINGSTONE Dam

On Puddingstone Creek for the Year Ending September 30, 1961

Drainage Area 32.1 Square Miles. Capacity of Reservoir 17,190. Ac. Ft. at Spillway Elev. 970.0 Ft. as of January, 1941

Continuous Water Stage Recorder Au

Gage Heights Read daily

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1	930.78	4561.7	0	0.04	930.15	4444.6	0	0.04	931.62	4721.7	9.90	0.04	931.34	4667.9	0	0.13	1
2	930.76	4558.0	0	0.04	930.13	4440.9	0	0.04	932.01	4796.7	37.10	0.04	931.32	4664.1	0	0.13	2
3	930.74	4554.3	0	0.04	930.11	4437.1	0	0.04	931.98	4790.9	0	0.04	931.30	4660.2	0.43	0.13	3
4	930.72	4550.5	0	0.04	930.09	4433.4	0	0.04	931.97	4788.9	0.64	0.04	931.28	4656.4	0.63	0.13	4
5	930.71	4548.7	0.04	0.04	930.07	4429.7	0	0.04	931.95	4785.1	0	0.04	931.25	4650.6	0	0.13	5
6	930.69	4545.0	0	0.04	930.04	4424.1	0	0.04	931.93	4781.3	0.34	0.04	931.22	4644.9	0	0.13	6
7	930.68	4543.1	0.34	0.04	930.02	4420.4	0.14	0.04	931.90	4775.5	0	0.04	931.20	4641.0	0	0.13	7
8	930.66	4539.4	0	0.04	930.00	4416.7	0.64	0.04	931.87	4769.7	0	0.04	931.18	4637.2	0.03	0.13	8
9	930.65	4537.5	0.04	0.04	929.97	4411.3	0	0.04	931.85	4765.9	0	0.04	931.16	4633.3	0	0.13	9
10	930.63	4533.8	0	0.04	929.94	4405.9	0	0.04	931.83	4762.0	0	0.04	931.14	4629.5	0.23	0.13	10
11	930.61	4530.1	0	0.04	929.92	4402.3	0.14	0.04	931.81	4758.2	0	0.04	931.12	4625.7	0.13	0.13	11
12	930.60	4528.2	0.04	0.04	929.90	4398.7	0	0.04	931.78	4752.4	0	0.04	931.09	4619.9	0	0.13	12
13	930.58	4524.5	0	0.04	929.87	4393.2	0	0.04	931.76	4748.6	0.04	0.04	931.07	4616.0	0	0.13	13
14	930.56	4520.8	0	0.04	929.86	4391.4	0.64	0.04	931.74	4744.8	0	0.04	931.05	4612.2	0	0.13	14
15	930.54	4517.1	0	0.04	929.83	4386.0	0	0.04	931.71	4739.0	0	0.04	931.04	4610.3	0.03	0.13	15
16	930.51	4511.5	0	0.04	929.81	4382.4	0	0.04	931.69	4735.1	0	0.04	931.03	4608.4	0.33	0.13	16
17	930.49	4507.8	0	0.04	929.79	4378.8	0	0.04	931.67	4731.3	0.04	0.04	931.01	4604.5	0	0.13	17
18	930.47	4504.1	0	0.04	929.77	4375.2	0	0.04	931.65	4727.5	0	0.04	930.99	4600.7	0	0.13	18
19	930.45	4500.4	0	0.04	929.74	4369.8	0	0.04	931.64	4725.6	0.64	0.04	930.97	4597.0	0	0.13	19
20	930.43	4496.6	0	0.04	929.71	4364.4	0	0.04	931.62	4721.7	0	0.04	930.96	4595.2	0.23	0.13	20
21	930.41	4492.9	0	0.04	929.69	4360.8	0	0.04	931.60	4717.9	0.14	0.04	930.94	4591.4	0	0.13	21
22	930.38	4487.3	0	0.04	929.67	4357.2	0	0.04	931.57	4712.1	0	0.04	930.93	4589.6	0.03	0.13	22
23	930.36	4483.6	0	0.04	929.64	4351.8	0	0.04	931.55	4708.3	0	0.04	930.91	4585.9	0	0.13	23
24	930.34	4479.9	0	0.04	929.62	4348.1	0	0.04	931.52	4702.5	0	0.04	930.90	4584.0	0.23	0.13	24
25	930.31	4474.3	0	0.04	929.60	4344.5	0	0.04	931.50	4698.6	0	0.04	930.88	4580.3	0	0.13	25
26	930.30	4472.5	0.74	0.04	929.57	4339.1	0	0.04	931.48	4694.8	0.03	0.13	930.87	4578.4	0.53	0.13	26
27	930.27	4466.9	0	0.04	929.55	4335.5	0	0.04	931.45	4689.0	0	0.13	930.85	4574.7	0	0.13	27
28	930.25	4463.2	0	0.04	929.60	4344.5	8.20	0.04	931.43	4685.2	0	0.13	930.83	4571.0	0	0.13	28
29	930.22	4457.6	0	0.04	929.80	4380.6	24.10	0.04	931.41	4681.4	0	0.13	930.82	4569.1	0.53	0.13	29
30	930.18	4450.2	0	0.04	930.03	4422.3	24.10	0.04	931.39	4677.5	0	0.13	930.81	4567.3	0.43	0.13	30
31					930.64	4535.7	61.10	0.04	931.36	4671.8	0	0.13					31
TOTAL			1.20	1.20			119.06	1.24			134.87	1.78			3.79	3.90	
Inf. Ac. Ft.			2.4				236.2				267.5				7.5		10,900.1
Outf. Ac. Ft.			2.4+(115.2)				25+(148.2)				35+(127.9)				7.7+(104.3)		9416.0+(1757.2
Maximum Mean Daily Inflow			0.74				61.1				9.9				0.63		198.0
Minimum Mean Daily Inflow			0				0				0				0		0
Storage Change		-115.2				+85.5				+136.1				-104.5			-273.1

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	957.51	feet	on 11/6 & 7/60	Storage	11911.	Acre Feet		
Min. W. S. Elev.	926.75	feet	on 5/16 & 17/61	Storage	3850.	Acre Feet		
Max. Peak Inf.	179.	C.F.S. from	5:40 A.M. on	11/6/60	to	6:10 A.M. on	11/6/60	
Max. Peak Outf.	292.	C.F.S. from	3:54 P.M. on	11/16/60	to	12:00 MID. on	11/16/60	

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
F.A. POLLARD	Dam Tender	Gage Hts. copied	RAP TS	
R.J. SARASUA	Hydrographer	Storage applied	RAP TS	
	Hydrographer	Inf. & Outf. comp.	RAP TS	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
INFLOW, DURING PERIODS OF NO RAIN, DUE TO IRRIGATION WASTE.
INFLOW FROM JULY 28, THROUGH AUGUST 2, WAS M.W.D. PURCHASED WATER.

76D 138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of LIVE OAK Dam

In Live Oak Canyon for the Year Ending September 30, 19 60

Continuous Water Stage Recorder Au

Drainage Area 2.28 Square Miles. Capacity of Reservoir 221.1 Ac. Ft. at Spillway Elev. 1497.0 Ft. as of November 1952 Gage Heights Read at various times

Day	October				November				December				January				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1			0	0		0	0	0	1452.1	1.3	0	0	1451.5	1.1	0	0	1
2			0	0		0	0	0	1452.1	1.3	0	0	1451.5	1.1	0	0	2
3			0	0		0	0	0	1452.0	1.2	0	0	1451.5	1.1	0	0	3
4			0	0		0	0	0	1452.0	1.2	0	0	1451.5	1.1	0	0	4
5			0	0		0	0	0	1452.0	1.2	0	0	1451.5	1.1	0	0	5
6			0	0	1451.8	1.2	0.6	0	1452.0	1.2	0	0	1451.4	1.0	0	0	6
7			0	0	1451.6	1.1	0	0	1451.9	1.2	0	0	1451.4	1.0	0	0	7
8			0	0	1451.6	1.1	0	0	1451.9	1.2	0	0	1451.4	1.0	0	0	8
9			0	0	1451.5	1.1	0	0	1451.9	1.2	0	0	1451.3	1.0	0	0	9
10			0	0	1451.4	1.0	0	0	1451.9	1.2	0	0	1451.3	1.0	0	0	10
11			0	0	1451.3	1.0	0	0	1451.9	1.2	0	0	1451.3	1.0	0	0	11
12			0	0	1452.1	1.3	0.2	0	1451.8	1.2	0	0	1451.3	1.0	0	0	12
13			0	0	1452.1	1.3	0	0	1451.8	1.2	0	0	1451.3	1.0	0	0	13
14			0	0	1452.0	1.2	0	0	1451.8	1.2	0	0	1451.3	1.0	0	0	14
15		NO STORAGE	0	0	1451.9	1.2	0	0	1451.7	1.1	0	0	1451.3	1.0	0	0	15
16			0	0	1451.9	1.2	0	0	1451.7	1.1	0	0	1451.3	1.0	0	0	16
17			0	0	1451.8	1.2	0	0	1451.7	1.1	0	0	1451.3	1.0	0	0	17
18			0	0	1451.7	1.1	0	0	1451.7	1.1	0	0	1451.3	1.0	0	0	18
19			0	0	1451.7	1.1	0	0	1451.7	1.1	0	0	1451.3	1.0	0	0	19
20			0	0	1451.6	1.1	0	0	1451.6	1.1	0	0	1451.3	1.0	0	0	20
21			0	0	1451.6	1.1	0	0	1451.6	1.1	0	0	1451.3	1.0	0	0	21
22			0	0	1451.5	1.1	0	0	1451.6	1.1	0	0	1451.3	1.0	0	0	22
23			0	0	1451.5	1.1	0	0	1451.6	1.1	0	0	1451.2	1.0	0	0	23
24			0	0	1451.4	1.0	0	0	1451.6	1.1	0	0	1451.2	1.0	0	0	24
25			0	0	1451.4	1.0	0	0	1451.6	1.1	0	0	1451.2	1.0	0	0	25
26			0	0	1452.8	1.6	0.3	0	1451.6	1.1	0	0	1453.8	2.1	0.6	0	26
27			0	0	1452.6	1.5	0	0	1451.5	1.1	0	0	1456.0	3.5	0.7	0	27
28			0	0	1452.5	1.5	0	0	1451.5	1.1	0	0	1456.0	3.5	0	0	28
29			0	0	1452.3	1.4	0	0	1451.5	1.1	0	0	1455.9	3.4	0	0	29
30			0	0	1452.2	1.3	0	0	1451.5	1.1	0	0	1455.9	3.4	0	0	30
31			0	0					1451.5	1.1	0	0	1455.8	3.4	0	0	31
TOTAL			0	0			1.1	0			0	0			1.3	0	
Inf. Ac. Ft.			0				2.2				0				2.6	4.8	
Outf. Ac. Ft.			0				0 + (0.9)				0 + (0.2)				0 + (0.3)	0 + (1.4)	
Maximum Mean Daily Inflow			0				0.6				0				0.7	0.7	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				+ 1.3				- 0.2				+ 2.3		+ 3.4	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1456.3	feet	on	1/27/61	Storage	3.8	Acre Feet		RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1444. ±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet			Dam Tender	Gage Hts. copied	HRW	RAP
Max. Peak Inf.	22.3	C. F. S. from	12:30 P.M.	on 11/6/60	to	1:00 P.M.	on	11/6/60	R.J. SARASUA	Hydrographer	Storage applied	HRW	RAP
Max. Peak Outf.	0	C. F. S. from		on	to		on			Hydrographer	Inf. & Outf. comp.	RAP	GLW

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D 138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of LIVE OAK Dam

In Live Oak Canyon for the Year Ending September 30, 19 61

Continuous Water Stage Recorder Au

Drainage Area 2.28 Square Miles. Capacity of Reservoir 221.1 Ac. Ft. at Spillway Elev. 1497.0 Ft. as of November 1952 Gage Heights Read at various times

Day	September				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1					1
2	No storage entire season				2
3					3
4					4
5					5
6					6
7					7
8					8
9					9
10					10
11					11
12					12
13					13
14					14
15					15
16					16
17					17
18					18
19					19
20					20
21					21
22					22
23					23
24					24
25					25
26					26
27					27
28					28
29					29
30					30
31					31
TOTAL					
Inf. Ac. Ft.					
Outf. Ac. Ft.					
Maximum Mean Daily Inflow					
Minimum Mean Daily Inflow					
Storage Change					

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	NO	feet	on		Storage		Acre Feet		RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	STORAGE	feet	on		Storage		Acre Feet			Dam Tender	Gage Hts. copied		
Max. Peak Inf.		C. F. S. from		on	to		on		R.J. SARASUA	Hydrographer	Storage applied	RAP	GLW
Max. Peak Outf.		C. F. S. from		on	to		on			Hydrographer	Inf. & Outf. comp.		

REMARKS

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of LIVE OAK Dam

In Live Oak Canyon for the Year Ending September 30, 1961

Continuous Water Stage Recorder Au

Drainage Area 2.28 Square Miles. Capacity of Reservoir 221.1 Ac. Ft. at Spillway Elev. 1497.0 Ft. as of November, 1952 Gage Heights Read at various times

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	1455.8	3.4	0	0	1454.9	2.8	0	0	1454.6	2.6 1/	0	0			0	0	1
2	1455.8	3.4	0	0	1454.9	2.8	0	0	1454.6	2.5	0	0			0	0	2
3	1455.7	3.3	0	0	1454.9	2.8	0	0	1454.5	2.4	0	0			0	0	3
4	1455.7	3.3	0	0	1454.9	2.8	0	0	1454.5	2.3	0	0			0	0	4
5	1455.7	3.3	0	0	1454.8	2.7	0	0	1454.5	2.2	0	0			0	0	5
6	1455.6	3.2	0	0	1454.8	2.7	0	0	1454.5	2.1	0	0			0	0	6
7	1455.6	3.2	0	0	1454.8	2.7	0	0	1454.5	2.0	0	0			0	0	7
8	1455.5	3.2	0	0	1454.8	2.7	0	0	1454.4	1.9	0	0			0	0	8
9	1455.5	3.2	0	0	1454.8	2.7	0	0	1454.4	1.8	0	0			0	0	9
10	1455.5	3.2	0	0	1454.8	2.7	0	0	1454.4	1.7	0	0			0	0	10
11	1455.4	3.1	0	0	1454.7	2.6	0	0	1454.4	1.6	0	0			0	0	11
12	1455.4	3.1	0	0	1454.7	2.6	0	0	1454.4	1.5	0	0			0	0	12
13	1455.4	3.1	0	0	1454.7	2.6	0	0	1454.4	1.4	0	0			0	0	13
14	1455.3	3.0	0	0	1454.7	2.6	0	0	1454.3	1.3	0	0			0	0	14
15	1455.3	3.0	0	0	1454.7	2.6	0	0	1454.3	1.2	0	0			0	0	15
16	1455.3	3.0	0	0	1454.7	2.6	0	0	1454.3	1.0	0	0			0	0	16
17	1455.2	3.0	0	0	1454.7	2.6	0	0	1454.3	0.9	0	0			0	0	17
18	1455.2	3.0	0	0	1454.7	2.6	0	0	1454.2	0.8	0	0			0	0	18
19	1455.2	3.0	0	0	1454.7	2.6	0	0	1454.2	0.7	0	0			0	0	19
20	1455.1	2.9	0	0	1454.6	2.6	0	0	1454.2	0.6	0	0			0	0	20
21	1455.1	2.9	0	0	1454.6	2.6	0	0	1454.2	0.5	0	0			0	0	21
22	1455.1	2.9	0	0	1454.6	2.6	0	0	1454.2	0.4	0	0			0	0	22
23	1455.0	2.8	0	0	1454.6	2.6	0	0	1454.2	0.3	0	0			0	0	23
24	1455.0	2.8	0	0	1454.6	2.6	0	0	1454.2	0.2	0	0			0	0	24
25	1455.0	2.8	0	0	1454.6	2.6	0	0	1454.2	0.1 1/	0	0			0	0	25
26	1455.0	2.8	0	0	1454.6	2.6	0	0		0	0	0			0	0	26
27	1454.9	2.8	0	0	1454.6	2.6	0	0		0	0	0			0	0	27
28	1454.9	2.8	0	0	1454.6	2.6	0	0		0	0	0			0	0	28
29					1454.6	2.6	0	0		0	0	0			0	0	29
30					1454.6	2.6	0	0		0	0	0			0	0	30
31					1454.6	2.6	0	0							0	0	31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	4.8	
Outf. Ac. Ft.			0 + (0.6)				0 + (0.2)				0 + (2.6)				0	0 + (4.8)	
Maximum Mean Daily Inflow			0				0				0				0	0.7	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change	- 0.6				- 0.2				- 2.6				0			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1456.3	feet	on	1/27/61	Storage	3.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	1444. ±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	Dam Tender		Gage Hts. copied HRW RAP
Max. Peak Inf.	22.3	C. F. S. from	12:30 P.M.	on	11/6/60	to	1:00 P.M. on	11/6/60	R.J. SARASUA	Hydrographer Storage applied RAP GLW
Max. Peak Outf.	0	C. F. S. from		on		to		on		Hydrographer Inf. & Outf. comp. RAP GLW

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

1/ ESTIMATED 2.2 A.F. STORAGE LOSS DUE TO FIRE DEBRIS. STORAGE VALUES ESTIMATED.

76D138N-68B Glb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of LIVE OAK Dam

In Live Oak Canyon for the Year Ending September 30, 1961

Continuous Water Stage Recorder Au

Drainage Area 2.28 Square Miles. Capacity of Reservoir 221.1 Ac. Ft. at Spillway Elev. 1497.0 Ft. as of November, 1952 Gage Heights Read at various times

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1			0	0			0	0			0	0			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	4.8	
Outf. Ac. Ft.			0				0				0				0	0 + (4.8)	
Maximum Mean Daily Inflow			0				0				0				0	0.7	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change	0				0				0				0			0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1456.3	feet	on	1/27/61	Storage	3.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS ckd. Date
Min. W. S. Elev.	1444. ±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	Dam Tender		Gage Hts. copied RAP GLW
Max. Peak Inf.	22.3	C. F. S. from	12:30 P.M.	on	11/6/60	to	1:00 P.M. on	11/6/60	R.J. SARASUA	Hydrographer Storage applied RAP GLW
Max. Peak Outf.	0	C. F. S. from		on		to		on		Hydrographer Inf. & Outf. comp. RAP GLW

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-68B Gb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

In/On Thompson Creek for the Year Ending September 30, 1960

Continuous Water Stage Recorder Au

Drainage Area 3.51 Square Miles. Capacity of Reservoir 578.0 Ac. Ft. at Spillway Elev. 1634.1 Ft. as of June 1957 Gage Heights Read at various times

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1			0	0			0	0			0	0			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0		POOL	+	0	10
11			0	0			0	0			0	0	1580.7	0.5	0.3	0	11
12			0	0			0	0			0	0	1580.6	0.4	0	0	12
13			0	0			0	0			0	0	1580.5	0.4	0	0	13
14			0	0			0	0			0	0	1580.5	0.4	0	0	14
15			0	0			0	0			0	0	1580.5	0.4	0	0	15
16		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0	1580.5	0.4	0	0	16
17			0	0			0	0			0	0	1580.4	0.4	0	0	17
18			0	0			0	0			0	0	1580.4	0.4	0	0	18
19			0	0			0	0			0	0	1580.4	0.4	0	0	19
20			0	0			0	0			0	0	1580.3	0.3	0	0	20
21			0	0			0	0			0	0	1580.3	0.3	0	0	21
22			0	0			0	0			0	0	1580.3	0.3	0	0	22
23			0	0			0	0			0	0	1580.3	0.3	0	0	23
24			0	0			0	0			0	0	1580.2	0.3	0	0	24
25			0	0			0	0			0	0	1580.2	0.3	0	0	25
26			0	0			0	0			0	0	1580.2	0.3	0	0	26
27			0	0			0	0			0	0	1580.2	0.3	0	0	27
28			0	0			0	0			0	0	1580.2	0.3	0	0	28
29			0	0			0	0			0	0	1580.2	0.3	0	0	29
30			0	0			0	0			0	0	1580.2	0.3	0	0	30
31			0	0							0	0	1580.2	0.3	0	0	31
TOTAL			0	0			0	0			0	0			0.3	0	
Inf. Ac. Ft.			0				0				0				0.6	0.6	
Outf. Ac. Ft.			0				0				0			0	+(0.3)	0 +(0.3)	
Maximum Mean Daily Inflow			0				0				0				0.3	0.3	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				+0.3		+0.3	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1581.4	feet	on	4/28 & 4/29/60	Storage	0.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1578. +	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		Dam Tender	Gage Hts. copied	RAP	GLW
Max. Peak Inf.	* 5.4	C.F.S. from	12:00 MID.	on	4/28/60	to	1:00 A.M.	on	4/28/60	R.J. SARASUA	Hydrographer	Storage applied	RAP	GLW
Max. Peak Outf.	0	C.F.S. from		on		to		on			Hydrographer	Inf. & Outf. comp.	RAP	GLW

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

* ESTIMATED FROM RECORDS OF RAINFALL STA. 1020

76D138N-68B Gb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

In/On Thompson Creek for the Year Ending September 30, 1960

Continuous Water Stage Recorder Au

Drainage Area 3.51 Square Miles. Capacity of Reservoir 578 Ac. Ft. at Spillway Elev. 1634.1 Ft. as of June 1957 Gage Heights Read at various times

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	1580.5	0.4	0.1	0	1580.4	0.4	0	0			0	0	1581.2	0.8	0	0	1
2	1580.5	0.4	0	0	1580.4	0.4	0	0			0	0	1581.1	0.7	0	0	2
3	1580.5	0.4	0	0	1580.3	0.3	0	0			0	0	1581.0	0.6	0	0	3
4	1580.4	0.4	0	0	1580.3	0.3	0	0			0	0	1581.0	0.6	0	0	4
5	1580.4	0.4	0	0	1580.3	0.3	0	0			0	0	1580.9	0.6	0	0	5
6	1580.4	0.4	0	0	1580.2	0.3	0	0			0	0	1580.9	0.6	0	0	6
7	1580.5	0.4	0	0	1580.2	0.3	0	0			0	0	1580.8	0.5	0	0	7
8	1580.8	0.5	0	0	1580.1	0.2	0	0			0	0	1580.8	0.5	0	0	8
9	1580.8	0.5	0	0	1580.1	0.2	0	0			0	0	1580.7	0.5	0	0	9
10	1580.8	0.5	0	0	1580.0	0.2	0	0			0	0	1580.7	0.5	0	0	10
11	1580.7	0.5	0	0	1580.0	0.2	0	0			0	0	1580.6	0.4	0	0	11
12	1580.7	0.5	0	0	1580.0	0.2	0	0			0	0	1580.5	0.4	0	0	12
13	1580.7	0.5	0	0	1580.0	0.2	0	0			0	0	1580.4	0.4	0	0	13
14	1580.6	0.4	0	0			0	0			0	0	1580.4	0.4	0	0	14
15	1580.6	0.4	0	0			0	0			0	0	1580.3	0.3	0	0	15
16	1580.5	0.4	0	0		POOL	0	0		NO STORAGE	0	0	1580.3	0.3	0	0	16
17	1580.5	0.4	0	0			0	0			0	0	1580.2	0.3	0	0	17
18	1580.4	0.4	0	0			0	0			0	0	1580.2	0.3	0	0	18
19	1580.4	0.4	0	0			0	0			0	0	1580.1	0.2	0	0	19
20	1580.4	0.4	0	0			0	0			0	0	1580.0	0.2	0	0	20
21	1580.4	0.4	0	0			0	0			0	0			0	0	21
22	1580.3	0.3	0	0			0	0			0	0			0	0	22
23	1580.3	0.3	0	0			0	0			0	0			0	0	23
24	1580.3	0.3	0	0			0	0			0	0			0	0	24
25	1580.3	0.3	0	0			0	0			0	0			0	0	25
26	1580.3	0.3	0	0			0	0			0	0		POOL	0	0	26
27	1580.3	0.3	0	0		NO STORAGE	0	0	1580.9	0.6	0.3	0			0	0	27
28	1580.3	0.3	0	0			0	0	1581.4	0.9	0.2	0			0	0	28
29	1580.4	0.4	0.1	0			0	0	1581.4	0.9	0	0			0	0	29
30							0	0	1581.3	0.8	0	0			0	0	30
31							0	0							0	0	31
TOTAL			0.2	0			0	0			0.5	0			0	0	
Inf. Ac. Ft.			0.4				0				1.0				0	2.0	
Outf. Ac. Ft.			0+	(0.3)			0+	(0.4)			0+	(0.2)			0+(0.8)	0+(2.0)	
Maximum Mean Daily Inflow			0.1				0				0.3				0	0.3	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		+0.1				-0.4				+0.8				-0.8		+	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1581.4	feet	on	4/28 & 4/29/60	Storage	0.9	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
Min. W. S. Elev.	1578. +	feet	on	VARIOUS DAYS	Storage	0	Acre Feet		Dam Tender	Gage Hts. copied	RAP	GLW
Max. Peak Inf.	* 5.4	C.F.S. from	12:00 MID.	on	4/28/60	to	1:00 A.M.	on	4/28/60	R.J. SARASUA	Hydrographer	Storage applied	RAP	GLW
Max. Peak Outf.	0	C.F.S. from		on		to		on			Hydrographer	Inf. & Outf. comp.	RAP	GLW

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

* ESTIMATED FROM RECORDS OF RAINFALL STA. 1020

76D138N-68B Gb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

In/On Thompson Creek for the Year Ending September 30, 1960

Drainage Area 3.51 Square Miles. Capacity of Reservoir 578.0 Ac. Ft. at Spillway Elev. 1634.1 Ft. as of June, 1957

Continuous Water Stage Recorder Au

Gage Heights Read at various times

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1			0	0			0	0			0	0			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	2 0	
Outf. Ac. Ft.			0				0				0				0	0 + (2 0)	
Maximum Mean Daily Inflow			0				0				0				0	0 3	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1581.4	feet	on 4/28 & 4/29/60	Storage	0.9	Acre Feet	
Min. W. S. Elev.	1578. +	feet	on VARIOUS DAYS	Storage	0	Acre Feet	
Max. Peak Inf.	* 5.4	C.F.S. from	12:00 MID. on 4/28/60	to	1:00 A.M.	on	4/28/60
Max. Peak Outf.	0	C.F.S. from	on	to		on	

RECORDS COLLECTED BY

Dam Tender	
Hydrographer	R.J. SARASUA
Hydrographer	

COMPUTATIONS	ckd.	Date
Gage Hts. copied	RAP GLW	
Storage applied	RAP GLW	
Inf. & Outf. comp.	RAP GLW	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES
* ESTIMATED FROM RECORDS OF RAINFALL STA. 1020

76D138N-68B Gb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

In/On Thompson Creek for the Year Ending September 30, 1961

Drainage Area 3.51 Square Miles. Capacity of Reservoir 578.0 Ac. Ft. at Spillway Elev. 1634.1 Ft. as of December, 1959

Continuous Water Stage Recorder Au

Gage Heights Read at various times

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1			0	0		0	0	0	1582.6	2.0	0	0	1581.2	0.8	0	0	1
2			0	0		0	0	0	1582.7	2.0	0	0	1581.2	0.8	0	0	2
3			0	0		0	0	0	1582.6	2.0	0	0	1581.1	0.7	0	0	3
4			0	0		0	0	0	1582.6	2.0	0	0	1581.1	0.7	0	0	4
5			0	0		0	0	0	1582.5	1.8	0	0	1581.0	0.6	0	0	5
6			0	0	1581.6	1.1	0.2	0	1582.4	1.8	0	0	1581.0	0.6	0	0	6
7			0	0	1581.8	1.2	0.2	0	1582.4	1.8	0	0	1581.0	0.6	0	0	7
8			0	0	1581.9	1.3	0.2	0	1582.3	1.6	0	0	1580.9	0.6	0	0	8
9			0	0	1582.0	1.4	0.2	0	1582.3	1.6	0	0	1580.9	0.6	0	0	9
10			0	0	1582.0	1.4	0.1	0	1582.2	1.6	0	0	1580.9	0.6	0	0	10
11			0	0	1582.0	1.4	0.1	0	1582.2	1.6	0	0	1580.8	0.5	0	0	11
12			0	0	1582.6	2.0	0.1	0	1582.1	1.5	0	0	1580.8	0.5	0	0	12
13			0	0	1583.0	2.3	0.1	0	1582.0	1.4	0	0	1580.8	0.5	0	0	13
14			0	0	1583.0	2.3	0	0	1582.0	1.4	0	0	1580.7	0.5	0	0	14
15			0	0	1582.9	2.2	0	0	1581.9	1.3	0	0	1580.7	0.5	0	0	15
16		NO STORAGE	0	0	1582.9	2.2	0	0	1581.9	1.3	0	0	1580.7	0.5	0	0	16
17			0	0	1582.8	2.1	0	0	1581.8	1.2	0	0	1580.6	0.4	0	0	17
18			0	0	1582.8	2.1	0	0	1581.8	1.2	0	0	1580.6	0.4	0	0	18
19			0	0	1582.7	2.0	0	0	1581.7	1.1	0	0	1580.6	0.4	0	0	19
20			0	0	1582.7	2.0	0	0	1581.7	1.1	0	0	1580.6	0.4	0	0	20
21			0	0	1582.7	2.0	0	0	1581.7	1.1	0	0	1580.6	0.4	0	0	21
22			0	0	1582.6	2.0	0	0	1581.6	1.1	0	0	1580.5	0.4	0	0	22
23			0	0	1582.6	2.0	0	0	1581.6	1.1	0	0	1580.5	0.4	0	0	23
24			0	0	1582.5	1.8	0	0	1581.5	1.0	0	0	1580.5	0.4	0	0	24
25			0	0	1582.4	1.8	0	0	1581.5	1.0	0	0	1580.5	0.4	0	0	25
26			0	0	1582.7	2.0	0.1	0	1581.5	1.0	0	0	1582.6	2.0	0.8	0	26
27			0	0	1582.8	2.1	0.1	0	1581.4	0.9	0	0	1583.0	2.3	0.2	0	27
28			0	0	1582.8	2.1	0	0	1581.4	0.9	0	0	1583.0	2.3	0	0	28
29			0	0	1582.7	2.0	0	0	1581.3	0.8	0	0	1583.0	2.3	0	0	29
30			0	0	1582.6	2.0	0	0	1581.3	0.8	0	0	1583.0	2.3	0	0	30
31			0	0					1581.2	0.8	0	0	1583.1	2.5	0.1	0	31
TOTAL			0	0			1.4	0			0	0			1.1	0	
Inf. Ac. Ft.			0				2.8				0				2.2	5.0	
Outf. Ac. Ft.			0				0 + (0.8)				0 + (1.2)				0 + (0.5)	0 + (2.5)	
Maximum Mean Daily Inflow			0				0.2				0				0.8	0.8	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				+2.0				-1.2				+1.7		+2.5	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1583.1	feet	on 1/31 & 2/1/61	Storage	2.5	Acre Feet	
Min. W. S. Elev.	1578. +	feet	on VARIOUS DAYS	Storage	0	Acre Feet	
Max. Peak Inf.	3.9	C.F.S. from	6:30 P.M. on 11/12/60	to	7:00 P.M.	on	11/12/60
Max. Peak Outf.	0	C.F.S. from	on	to		on	

RECORDS COLLECTED BY

Dam Tender	
Hydrographer	R.J. SARASUA
Hydrographer	

COMPUTATIONS	ckd.	Date
Gage Hts. copied	HRW RAP	
Storage applied	HRW RAP	
Inf. & Outf. comp.	HRW RAP	

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

On Thompson Creek for the Year Ending September 30, 19 61

Drainage Area 3.51 Square Miles. Capacity of Reservoir 578.0 Ac. Ft. at Spillway Elev. 1634.1 Ft. as of December 19 59

Continuous Water Stage Recorder Au

Gage Heights Read at various times

Day	February				March				April				May				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1	1583.0	2.3	0	0	1581.9	1.3	0	0	1581.4	0.9	0	0			0	0	1
2	1582.9	2.2	0	0	1581.9	1.3	0	0	1581.3	0.8	0	0			0	0	2
3	1582.9	2.2	0	0	1581.9	1.3	0	0	1581.3	0.8	0	0			0	0	3
4	1582.9	2.2	0	0	1581.9	1.3	0	0	1581.2	0.8	0	0			0	0	4
5	1582.9	2.2	0	0	1581.8	1.2	0	0	1581.2	0.8	0	0			0	0	5
6	1582.9	2.2	0	0	1581.8	1.2	0	0	1581.1	0.7	0	0			0	0	6
7	1582.8	2.1	0	0	1581.7	1.1	0	0	1581.1	0.7	0	0			0	0	7
8	1582.8	2.1	0	0	1581.7	1.1	0	0	1581.1	0.7	0	0			0	0	8
9	1582.8	2.1	0	0	1581.6	1.1	0	0	1581.1	0.7	0	0			0	0	9
10	1582.8	2.1	0	0	1581.6	1.1	0	0	1581.1	0.7	0	0			0	0	10
11	1582.7	2.0	0	0	1581.6	1.1	0	0	1581.0	0.6	0	0			0	0	11
12	1582.7	2.0	0	0	1581.6	1.1	0	0	1581.0	0.6	0	0			0	0	12
13	1582.7	2.0	0	0	1581.5	1.0	0	0	1581.0	0.6	0	0			0	0	13
14	1582.6	2.0	0	0	1581.5	1.0	0	0	1581.0	0.6	0	0			0	0	14
15	1582.6	2.0	0	0	1581.5	1.0	0	0	1580.9	0.6	0	0			0	0	15
16	1582.5	1.8	0	0	1581.5	1.0	0	0	1580.9	0.6	0	0			0	0	16
17	1582.5	1.8	0	0	1581.5	1.0	0	0	1580.9	0.6	0	0			0	0	17
18	1582.4	1.8	0	0	1581.5	1.0	0	0	1580.8	0.5	0	0			0	0	18
19	1582.4	1.8	0	0	1581.4	0.9	0	0	1580.8	0.5	0	0			0	0	19
20	1582.3	1.6	0	0	1581.4	0.9	0	0	1580.7	0.5	0	0			0	0	20
21	1582.3	1.6	0	0	1581.4	0.9	0	0	1580.7	0.5	0	0			0	0	21
22	1582.2	1.6	0	0	1581.3	0.8	0	0	1580.7	0.5	0	0			0	0	22
23	1582.2	1.6	0	0	1581.3	0.8	0	0	1580.7	0.5	0	0			0	0	23
24	1582.2	1.6	0	0	1581.3	0.8	0	0	1580.7	0.5	0	0			0	0	24
25	1582.1	1.5	0	0	1581.5	1.0	0.1	0	1580.6	0.4	0	0			0	0	25
26	1582.0	1.4	0	0	1581.5	1.0	0	0	1580.5	0.4	0	0			0	0	26
27	1582.0	1.4	0	0	1581.5	1.0	0	0	1580.4	0.4	0	0			0	0	27
28	1581.9	1.3	0	0	1581.5	1.0	0	0		0	0	0			0	0	28
29					1581.4	0.9	0	0		0	0	0			0	0	29
30					1581.4	0.9	0	0		0	0	0			0	0	30
31					1581.4	0.9	0	0							0	0	31
TOTAL			0	0			0.1	0			0	0			0	0	
Inf. Ac. Ft.			0				0.2				0				0	5.2	
Outf. Ac. Ft.			0	+ (1.2)			0	+ (0.6)			0	+ (0.9)			0	0 + (5.2)	
Maximum Mean Daily Inflow			0				0.1				0				0	0.8	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		-1.2				-0.4				-0.9				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1583.1	feet	on 1/31 & 2/1/61	Storage	2.5	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1578. ±	feet	on VARIOUS DAYS	Storage	0	Acre Feet		Dam Tender	Gage Hts. copied	RAP GLW
Max. Peak Inf.	3.9	C.F.S. from	6:30 P.M. on 11/12/60	to	7:00 P.M.	on 11/12/60	R.J. SARASUA	Hydrographer	Storage applied	RAP GLW
Max. Peak Outf.	0	C.F.S. from	on	to		on		Hydrographer	Inf. & Outf. comp.	RAP GLW

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-68B Gib 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of THOMPSON CREEK Dam

On Thompson Creek for the Year Ending September 30, 19 61

Drainage Area 3.51 Square Miles. Capacity of Reservoir 578.0 Ac. Ft. at Spillway Elev. 1634.1 Ft. as of December 19 59

Continuous Water Stage Recorder Au

Gage Heights Read at various times

Day	June				July				August				September				Day
	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	Gage Height	Acre Ft. Storage	C.F.S. Inflow	C.F.S. Outflow	
1			0	0			0	0			0	0			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			0	0			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	5.2	
Outf. Ac. Ft.			0				0				0				0	0 + (5.2)	
Maximum Mean Daily Inflow			0				0				0				0	0.8	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	1583.1	feet	on 1/31 & 2/1/61	Storage	2.5	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1578. ±	feet	on VARIOUS DAYS	Storage	0	Acre Feet		Dam Tender	Gage Hts. copied	RAP GLW
Max. Peak Inf.	3.9	C.F.S. from	6:30 P.M. on 11/12/60	to	7:00 P.M.	on 11/12/60	R.J. SARASUA	Hydrographer	Storage applied	RAP GLW
Max. Peak Outf.	0	C.F.S. from	on	to		on		Hydrographer	Inf. & Outf. comp.	RAP GLW

REMARKS ( ) INDICATES EVAPORATION AND OTHER LOSSES

76D138N-68B Gb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL Dam

In Long Beach for the Year Ending September 30, 1960

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at Spillway Elev. 17.± Ft. as of July 19 47

Continuous Water Stage Recorder H.C.F.

Gage Heights Read at various times

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1			0	0			0	0		0	0	0		0	0	0	1
2			0	0			0	0		0	0	0		0	0	0	2
3			0	0			0	0		0	0	0		0	0	0	3
4			0	0			0	0		0	0	0		0	0	0	4
5			0	0			0	0		0	0	0		0	0	0	5
6			0	0			0	0		0	0	0		0	0	0	6
7			0	0			0	0		0	0	0		0	0	0	7
8			0	0			0	0	4.0	0.2	0.5	0.4		0	0	0	8
9			0	0			0	0		0	0	0.1	6.2	1.3	0.7	0	9
10			0	0			0	0		0	0	0	4.9	0.5	5.9	6.3	10
11			0	0			0	0		0	0	0	7.4	3.5	4.8	3.3	11
12			0	0			0	0		0	0	0		0	6.6	8.4	12
13			0	0			0	0		0	0	0		0	0	0	13
14			0	0			0	0		0	0	0	5.2	0.7	18.5	16.1	14
15			0	0			0	0		0	0	0		0	3.0	3.4	15
16			0	0			0	0		0	0	0		0	0	0	16
17			0	0			0	0		0	0	0		0	0	0	17
18			0	0			0	0		0	0	0		0	0	0	18
19			0	0			0	0		0	0	0		0	0	0	19
20			0	0			0	0	5.3	0.8	0.4	0		0	0	0	20
21			0	0			0	0		0	1.2	1.6		0	0	0	21
22			0	0			0	0		0	0	0		0	0	0	22
23			0	0			0	0		0	0	0		0	0	0	23
24			0	0			0	0	6.7	1.8	13.1	12.2		0	0	0	24
25			0	0			0	0		0	2.7	3.6	6.4	1.4	0.7	0	25
26			0	0			0	0		0	0	0		0	0	0.7	26
27			0	0			0	0		0	0	0		0	0	0	27
28			0	0			0	0		0	0	0		0	0	0	28
29			0	0			0	0		0	0	0		0	0	0	29
30			0	0			0	0		0	0	0		0	0	0	30
31			0	0						0	0	0		0	0	0	31
TOTAL			0	0			0	0			179	179			402	402	
Inf. Ac. Ft.			0				0				35.5				79.7	115.2	
Outf. Ac. Ft.			0				0				35.5				79.7	115.2	
Maximum Mean Daily Inflow			0				0				13.1				18.5	18.5	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	10.0	feet	on 2/1/60	Storage	38.6	Acre Feet		
Min. W. S. Elev.	1.8±	feet	on VARIOUS DAYS	Storage	0	Acre Feet		
Max. Peak Inf.	404.0	C.F.S. from	8:30 P.M. on 2/1/60	to	8:40 P.M.	on	2/1/60	
Max. Peak Outf.	55.0	C.F.S. from	on VARIOUS DAYS	to		on		
REMARKS								

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
J.C. VIDMAR - D. RAGSDALE	Dam Tender	Gage Hts. copied	HRW TS	
E.S. BONADIMAN	Hydrographer	Storage applied	HRW TS	
	Hydrographer	Inf. & Outf. comp.	HRW TS	

76D138N-68B Gb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL Dam

In Long Beach for the Year Ending September 30, 1960

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at Spillway Elev. 17.± Ft. as of July 19 47

Continuous Water Stage Recorder H.C.F.

Gage Heights Read at various times

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1	9.6	32.1	29.2	13.0			0	0		0	0	0			0	0	1
2		0	5.5	21.7			0	0		0	0	0			0	0	2
3		0	0	0			0	0		0	0	0			0	0	3
4		0	0	0			0	0		0	0	0			0.6	0.6	4
5		0	0	0			0	0		0	0	0			0	0	5
6		0	0	0			0	0		0	0	0			0	0	6
7		0	0	0			0	0		0	0	0			0	0	7
8	6.6	1.7	3.4	2.5			0	0		0	0	0			0	0	8
9		0	0.7	1.6			0	0		0	0	0			0	0	9
10		0	5.1	5.1			0	0		0	0	0			0	0	10
11		0	0	0			0	0		0	0	0			0	0	11
12		0	0	0			0	0		0	0	0			0	0	12
13		0	0	0			0	0		0	0	0			0	0	13
14		0	0	0			0	0		0	0	0			0	0	14
15		0	0	0			0	0		0	0	0			0	0	15
16		0	0	0			0	0		0	0	0			0	0	16
17		0	0	0			0	0		0	0	0			0	0	17
18		0	0	0			0	0		0	0	0			0	0	18
19		0	0	0			0	0		0	0	0			0	0	19
20		0	0	0			0	0		0	0	0			0	0	20
21		0	0	0			0	0		0	0	0			0	0	21
22		0	0	0			0	0		0	0	0			0	0	22
23		0	0	0			0	0		0	0	0			0	0	23
24		0	0	0			0	0		0	0.5	0.5			0	0	24
25		0	0	0			0	0		0	0	0			0	0	25
26		0	0	0			0	0	7.2	2.8	1.4	0			0	0	26
27		0	0	0			0	0		0	22.4	23.8			0	0	27
28	7.1	2.4	3.1	1.9			0.7	0.7		0	0	0			0	0	28
29		0	14.8	16.0			0	0		0	0	0			0	0	29
30							0	0		0	0	0			0	0	30
31							0	0							0	0	31
TOTAL			61.8	61.8			0.7	0.7			24.3	24.3			0.6	0.6	
Inf. Ac. Ft.			122.6				1.4				48.2				1.2	288.6	
Outf. Ac. Ft.			122.6				1.4				48.2				1.2	288.6	
Maximum Mean Daily Inflow			29.2				0.7				22.4				0.6	29.2	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	10.0	feet	on 2/1/60	Storage	38.6	Acre Feet		
Min. W. S. Elev.	1.8±	feet	on VARIOUS DAYS	Storage	0	Acre Feet		
Max. Peak Inf.	404.0	C.F.S. from	8:30 P.M. on 2/1/60	to	8:40 P.M.	on	2/1/60	
Max. Peak Outf.	55.0	C.F.S. from	on VARIOUS DAYS	to		on		
REMARKS								

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
D. RAGSDALE	Dam Tender	Gage Hts. copied	HRW TS	
E.S. BONADIMAN	Hydrographer	Storage applied	HRW TS	
	Hydrographer	Inf. & Outf. comp.	HRW TS	

76D138N-68B C/b 12-57

Daily Gage Height in feet and Operation Record of HAMILTON BOWL Dam

In Long Beach for the Year Ending September 30, 1960

~~On~~

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder H.C.F.

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at Spillway Elev. 17.± Ft. as of July 1947 Gage Heights Read at various times

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1			0	0			0	0			0	0			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0		NO STORAGE	0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0			0	0			0	0			0	0	24
25			0	0			0	0			0	0			0	0	25
26			0	0			0	0			0	0			0	0	26
27			0	0			0	0			0	0			0	0	27
28			0	0			0	0			0	0			0	0	28
29			0	0			0	0			0	0			0	0	29
30			0	0			0	0			0	0			0	0	30
31							0	0			0	0					31
TOTAL			0	0			0	0			0	0			0	0	
Inf. Ac. Ft.			0				0				0				0	0	
Outf. Ac. Ft.			0				0				0				0	0	
Maximum Mean Daily Inflow			0				0				0				0	0	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	10.0	feet	on 2/1/60	Storage	38.6	Acre Feet			
Min. W. S. Elev.	1.8 ±	feet	on VARIOUS DAYS	Storage	0	Acre Feet			
Max. Peak Inf.	404.0	C.F.S. from	8:30 P.M. on 2/1/60	to	8:40 P.M. on 2/1/60				
Max. Peak Outf.	55.0	C.F.S. from	on VARIOUS DAYS	to	on				

REMARKS

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
D. RAGSDALE	Dam Tender	Gage Hts. copied	RAP	GLW
E.S. BONADIMAN	Hydrographer	Storage applied	RAP	GLW
	Hydrographer	Inf. & Outf. comp.	RAP	GLW

76D138N-68B C/b 12-57

Daily Gage Height in feet and Operation Record of HAMILTON BOWL Dam

In Long Beach for the Year Ending September 30, 1961

~~On~~

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Continuous Water Stage Recorder H.C.F.

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at Spillway Elev. 17.± Ft. as of July 1947 Gage Heights Read at various times

Day	October Gage Height	October Acre Ft. Storage	October C.F.S. Inflow	October C.F.S. Outflow	November Gage Height	November Acre Ft. Storage	November C.F.S. Inflow	November C.F.S. Outflow	December Gage Height	December Acre Ft. Storage	December C.F.S. Inflow	December C.F.S. Outflow	January Gage Height	January Acre Ft. Storage	January C.F.S. Inflow	January C.F.S. Outflow	Day
1			0	0		0	0	0	4.2	0.3	0.2	0			0	0	1
2			0	0		0	0	0		0	0.5	0.7			0	0	2
3			0	0	7.0	2.1	1.1	0		0	0	0			0	0	3
4			0	0	3.4	0.1	0	1.0		0	0	0			0	0	4
5			0	0	6.2	1.3	1.9	1.3		0	0	0			0	0	5
6			0	0		0	0.1	0.8		0	0	0			0	0	6
7			0	0		0	0	0		0	0	0			0	0	7
8			0	0		0	0	0		0	0	0			0	0	8
9			0	0		0	0	0		0	0	0			0	0	9
10			0	0		0	0	0		0	0	0			0	0	10
11			0	0		0	0	0		0	0	0			0	0	11
12			0	0	3.7	0.2	0.6	0.5		0	0	0			0	0	12
13			0	0		0	0	0.1		0	0	0			0	0	13
14			0	0		0	1.0	1.0		0	0	0			0	0	14
15			0	0		0	0	0		0	0	0			0	0	15
16			0	0		0	0	0		0	0	0			0	0	16
17			0	0		0	0	0		0	0	0			0	0	17
18			0	0		0	0	0		0	0	0			0	0	18
19			0	0		0	0	0		0	0	0			0	0	19
20		NO STORAGE	0	0		0	0	0		0	0	0		NO STORAGE	0	0	20
21			0	0		0	0	0		0	0	0			0	0	21
22			0	0		0	0	0		0	0	0			0	0	22
23			0	0		0	0	0		0	0	0			0	0	23
24			0	0		0	0	0		0	0	0			0	0	24
25			0	0		0	0	0		0	0	0			0.5	0.5	25
26			0	0	3.5	0.1	9.2	9.1		0	0	0			1.8.0	1.8.0	26
27			0	0		0	0	0.1		0	0	0			0	0	27
28			0	0		0	0	0		0	0	0			0	0	28
29			0	0		0	0	0		0	0	0			0	0	29
30			0	0		0	0	0		0	0	0			0	0	30
31			0	0						0	0	0			0	0	31
TOTAL			0	0			139	139			0.7	0.7			185	185	
Inf. Ac. Ft.			0				276				1.4				367	657	
Outf. Ac. Ft.			0				276				1.4				367	657	
Maximum Mean Daily Inflow			0				92				0.5				1.8.0	1.8.0	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				0		0	

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	8.0	feet	on 1/26/61	Storage	7.8	Acre Feet			
Min. W. S. Elev.	1.8±	feet	on VARIOUS DAYS	Storage	0	Acre Feet			
Max. Peak Inf.	195.	C.F.S. from	6:10 A.M. on 1/26/61	to	6:20 A.M. on 1/26/61				
Max. Peak Outf.	48.5	C.F.S. from	on VARIOUS DAYS	to	on				

REMARKS

RECORDS COLLECTED BY		COMPUTATIONS	ckd.	Date
D. RAGSDALE	Dam Tender	Gage Hts. copied	HRW	RAP
E.S. BONADIMAN	Hydrographer	Storage applied	HRW	RAP
	Hydrographer	Inf. & Outf. comp.	HRW	RAP

76D138N-68B Clb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL Dam

In Long Beach for the Year Ending September 30, 19 61

Continuous Water Stage Recorder H.C.F.

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at Spillway Elev. 17. ± Ft. as of July 19 47 Gage Heights Read at various times

Day	February Gage Height	February Acre Ft. Storage	February C.F.S. Inflow	February C.F.S. Outflow	March Gage Height	March Acre Ft. Storage	March C.F.S. Inflow	March C.F.S. Outflow	April Gage Height	April Acre Ft. Storage	April C.F.S. Inflow	April C.F.S. Outflow	May Gage Height	May Acre Ft. Storage	May C.F.S. Inflow	May C.F.S. Outflow	Day
1			0	0			0	0			0	0			0	0	1
2			0	0			0	0			0	0			0	0	2
3			0	0			0	0			0	0			0	0	3
4			0	0			0	0			0	0			0	0	4
5			0	0			0	0			0	0			0	0	5
6			0	0			0	0			0	0			0	0	6
7			0	0			0	0			0	0			0	0	7
8			0	0			0	0			0	0			0	0	8
9			0	0			0	0			0	0			0	0	9
10			0	0			0	0			0	0			0	0	10
11			0	0			0	0			0	0			0	0	11
12			0	0			0	0			0	0			0	0	12
13			0	0			0	0			0	0			0	0	13
14			0	0			0	0			0	0			0	0	14
15			0	0			1.2	1.2			0	0			0	0	15
16			0	0			0	0			0	0			0	0	16
17			0	0			0	0			0	0			0	0	17
18			0	0			0	0			0	0			0	0	18
19			0	0			0	0			0	0			0	0	19
20			0	0			0	0			0	0			0	0	20
21			0	0			0	0			0	0			0	0	21
22			0	0			0	0			0	0			0	0	22
23			0	0			0	0			0	0			0	0	23
24			0	0	4.9	0.5	0.3	0			0	0			0	0	24
25			0	0		0	0	0.3			0	0			0	0	25
26			0	0		0	0	0			0	0			0	0	26
27			0	0		0	0	0			0	0			0	0	27
28			0	0		0	0	0			0	0			0	0	28
29						0	0	0			0	0			0	0	29
30						0	0	0			0	0			0	0	30
31						0	0	0							0	0	31
TOTAL			0	0			1.5	1.5			0	0			0	0	
Inf. Ac. Ft.			0				3.0				0				0	6.8.7	
Outf. Ac. Ft.			0				3.0				0				0	6.8.7	
Maximum Mean Daily Inflow			0				1.2				0				0	18.0	
Minimum Mean Daily Inflow			0				0				0				0	0	
Storage Change		0				0				0				0		0	

NO STORAGE

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	8.0	feet	on	1/26/61	Storage	7.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1.8±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	D. RAGSDALE	Dam Tender	Gage Hts. copied	HRW RAP
Max. Peak Inf.	195.	C.F.S. from	6:10 A.M.	on	1/26/61	to	6:20 A.M. on	1/26/61	E.S. BONADIMAN	Hydrographer	Storage applied HRW RAP
Max. Peak Outf.	48.5	C.F.S. from		on	VARIOUS DAYS	to	on			Hydrographer	Inf. & Outf. comp. HRW RAP

REMARKS

76D138N-68B Clb 12-57

DAM OPERATION RECORD
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
HYDRAULIC DIVISION

Daily Gage Height in feet and Operation Record of HAMILTON BOWL Dam

In Long Beach for the Year Ending September 30, 19 61

Continuous Water Stage Recorder H.C.F.

Drainage Area 3.5 Square Miles. Capacity of Reservoir 160.4 Ac. Ft. at Spillway Elev. 17. ± Ft. as of July 19 47 Gage Heights Read at various times

Day	June Gage Height	June Acre Ft. Storage	June C.F.S. Inflow	June C.F.S. Outflow	July Gage Height	July Acre Ft. Storage	July C.F.S. Inflow	July C.F.S. Outflow	August Gage Height	August Acre Ft. Storage	August C.F.S. Inflow	August C.F.S. Outflow	September Gage Height	September Acre Ft. Storage	September C.F.S. Inflow	September C.F.S. Outflow	Day
1			0.1	0.1													1
2			0	0													2
3			0	0													3
4			0	0													4
5			0	0													5
6			0	0													6
7			0	0													7
8			0	0													8
9			0	0			SMALL DOMESTIC WASTE INFLOWS ONLY										9
10			0	0			WITH INTERMITTENT PUMPING										10
11			0	0													11
12			0	0													12
13			0	0													13
14			0	0													14
15			0	0													15
16			0	0													16
17			0	0													17
18			0	0													18
19			0	0													19
20			0	0													20
21			0	0													21
22			0	0													22
23			0	0													23
24			0	0													24
25			0	0													25
26			0	0													26
27			0	0													27
28			0	0													28
29			0	0													29
30			0	0													30
31																	31
TOTAL			0.1	0.1													
Inf. Ac. Ft.			0.2													6.8.9	
Outf. Ac. Ft.			0.2													6.8.9	
Maximum Mean Daily Inflow			0.1													18.0	
Minimum Mean Daily Inflow			0													0	
Storage Change		0														0	

NO STORAGE

NOTE: Gage Heights and Storages as of Midnight on Day Shown

Max. W. S. Elev.	8.0	feet	on	1/26/61	Storage	7.8	Acre Feet	RECORDS COLLECTED BY		COMPUTATIONS	ckd. Date
Min. W. S. Elev.	1.8±	feet	on	VARIOUS DAYS	Storage	0	Acre Feet	D. RAGSDALE	Dam Tender	Gage Hts. copied	RAP HRW
Max. Peak Inf.	195.	C.F.S. from	6:10 A.M.	on	1/26/61	to	6:20 A.M. on	1/26/61	E.S. BONADIMAN	Hydrographer	Storage applied RAP HRW
Max. Peak Outf.	48.5	C.F.S. from		on	VARIOUS DAYS	to	on			Hydrographer	Inf. & Outf. comp. RAP HRW

REMARKS

TABLE XIII

YEARLY RESERVOIR OPERATION SUMMARY

1959-60 1960-61

DAM	YEAR	INFLOW			OUTFLOW	PEAK INFLOW				PEAK OUTFLOW				STORAGE A.F.		
		ANNUAL A.F.	MAX. DAY C.F.S.	MIN. DAY C.F.S.	ANNUAL A.F.	MO.	DAY	PERIOD	C.F.S.	MO.	DAY	PERIOD	C.F.S.	MAX.	MIN.	SEPT. 30
PACOIMA	1959-60	131.	0.9	0	271.	1	11-12	9:30 P.M. TO 12:15 A.M.	2.2	8	1	12:00 M. TO 1:00 P.M.	4.2	140.	0	0
	1960-61	59.	6.3	0	11.	11	12	7:30 P.M. TO 8:00 P.M.	60.				0	52.	0	48.
BIG TUJUNGA	1959-60	1183.	12.	0.3	1653.	1	12	2:00 A.M. TO 3:00 A.M.	24.	7	22-23	3:30 P.M. TO 11:00 A.M.	7.2	1021.	103.	103.
	1960-61	838.	14.	0.4	718.	11	6	7:30 A.M. TO 8:00 A.M.	35.	5	26-29	4:00 P.M. TO 11:00 A.M.	4.2	613.	90.	222.
DEVIL'S GATE	1959-60	1052.	40.	0	131.	1	11	11:15 P.M. TO 11:30 P.M.	329.	8	3	8:00 A.M. TO 9:30 A.M.	2.3	404.	0	0
	1960-61	1035.	131.	0	488.	11	6	5:00 A.M. TO 5:30 A.M.	1260.	11	25	10:00 A.M. TO 10:15 A.M.	360.	505.	0	0
EATON WASH	1959-60	60.	5.8	0	0	1	11-12	11:30 P.M. TO 12:30 A.M.	48.				0	19.	0	0
	1960-61	61.	10.	0	0	1	26	11:30 A.M. TO 12:00 M.	39.	7	28		+	20	0	0
SANTA ANITA	1959-60	954.	6.5	0.1	1152.	2	1	11:00 P.M. TO MID.	16.	7	5	7:50 A.M. TO 7:55 A.M.	27.	346.	0	16
	1960-61	527.	12.	0.1	407.	1	26	1:30 P.M. TO 2:00 P.M.	65.	6	21	8:00 A.M. TO 2:00 P.M.	19.	186.	14.	134.
SAWPIT	1959-60	201.	4.8	+	163.	4	27	7:15 P.M. TO 7:30 P.M.	70.	4	27	7:40 P.M. TO 7:55 P.M.	34.	44.	3.	41.
	1960-61	111.	1.7	0	144.	11	5	5:30 P.M. TO 6:00 P.M.	12.	1	26	1:30 P.M. TO 2:00 P.M.	4.5	42.	8.6	8.6
COGSWELL	1959-60	1935.	27.	0.5	2006.	1	10	2:00 P.M. TO 2:30 P.M.	65.	7	1	8:00 A.M. TO 12:15 P.M.	16.	1397.	70.	70.
	1960-61	1106.	36.	0.4	572.	1	26	3:30 P.M. TO 4:00 P.M.	116.	10	25	9:35 A.M. TO 11:30 A.M.	12.	593.	59.	467.
SAN GABRIEL	1959-60	19474.	112.	5.0	19258	4	28	2:00 A.M. TO 3:00 A.M.	169.	7	8-9	5:50 P.M. TO 12:12 P.M.	405.	4170.	952.	1609.
	1960-61	12041.	122.	2.2	12698.	11	5	7:00 P.M. TO 7:30 P.M.	634.	5	15-16	MID. TO MID.	460.	3720.	26.5	32.
BIG DALTON	1959-60	54.	0.6	+	11.	4	27	8:30 P.M. TO 9:00 P.M.	4.8	7	21	1:35 P.M. TO 8:00 P.M.	5.0	100.	64.	85.
	1960-61	187.	17.8	0	1510.	11	5	6:30 P.M. TO 7:00 P.M.	462.	10	26	10:00 A.M. TO 11:00 A.M.	18.	93.	0	47.
SAN DIMAS	1959-60	408.	6.7	0.1	455.	2	8	7:00 P.M. TO 9:00 P.M.	11.			VARIOUS DAYS	5.8	325.	5.0	12.0
	1960-61	468.	31.	0.06	250.	11	5	7:30 P.M. TO 8:00 P.M.	397.	8	1	2:36 P.M. TO 3:30 P.M.	20.	440.	12.	110.
PUDDINGSTONE DIVERSION	1959-60	0	0	0	0				0				0	0	0	0
	1960-61	146.	11.	0	64.	11	26	5:30 P.M. TO 6:00 P.M.	137.	7	20-21	11:30 P.M. TO 5:00 A.M.	15.	31.	0	0
PUDDINGSTONE	1959-60	837.	80.	0	40.	1	12	1:00 A.M. TO 2:00 A.M.	148.			VARIOUS DAYS	0.1	5086.	4424.	4840.
	1960-61	10900.	198.	0	9416.	11	6	5:40 A.M. TO 6:10 A.M.	179.	11	16	3:54 P.M. TO MID.	292.	11911.	3850.	4567.
LIVE OAK	1959-60	0	0	0	0				0				0	0	0	0
	1960-61	4.8	0.7	0	0	11	6	12:30 P.M. TO 1:00 P.M.	22				0	3.8	0	0
THOMPSON CREEK	1959-60	2.0	0.3	0	2.0	4	28	MID. TO 1:00 A.M.	5.4*				0	0.9	0	0
	1960-61	5.2	0.8	0	0	11	12	6:30 P.M. TO 7:00 P.M.	3.9				0	2.5	0	0
HAMILTON BOWL	1959-60	289.	29.2	0	289.	2	1	8:30 P.M. TO 8:40 P.M.	404.			VARIOUS DAYS	55.	39.	0	0
	1960-61	69.	18.	0	69.	1	26.	6:10 A.M. TO 6:20 A.M.	195.			VARIOUS DAYS	48.	7.8	0	0

* ESTIMATE BASED ON RAINFALL RECORDS

NOTE: OUTFLOWS DO NOT INCLUDE EVAPORATION OR PERCOLATION LOSSES

DEBRIS DAMS
&
DEBRIS BASINS

DEBRIS DAMS AND DEBRIS BASINS

FOREWORD

The District operated and maintained eleven debris dams and forty-four debris basins during the 1959-60 and 1960-61 water years. The Los Angeles District Corps of Engineers, Department of the Army, operated and maintained Haines Debris Basin. Pertinent data relative to District debris dams and basins, and Haines Debris Basin are presented herein.

PURPOSE

Debris dams and basins serve to retain detritus from their respective drainage areas and direct clear water flow therefrom to appropriate storm drains or flood channels.

NEW FACILITIES

Three debris dams were completed by the Los Angeles District Corps of Engineers early in the 1959-60 season and accepted by the District for operation and maintenance. These debris dams were as follow:

Big Dalton, January 1960; Little Dalton, November 1959; Santa Anita, December 1959. Gooseberry Debris Basin was completed by the Corps and accepted by the District for operation and maintenance in September, 1959.

Extensive improvements on La Tuna Debris Basin by the Corps of Engineers, period July, 1959 to December, 1960, increased its maximum capacity from 70,200 cubic yards to 527,600 cubic yards, and changed its classification to that of debris dam. In this report it is listed as a debris basin but effective December, 1960, it was considered a debris dam.

RESPONSIBILITY

The compilation of debris dam and debris basin records was under the immediate direction of E.C. Kenyon, Section Head, Special Assignment Section. The operation and maintenance, such as mechanical operation of outflow facilities, maintenance and construction of appurtenant structures, and access thereto, was under the supervision of H.C. Porter, Chief, Operation and Maintenance Division.

Pertinent data relative to the District's debris dams and debris basins are presented in the following tabulations.

DEBRIS DAMS

NAME	DATE OF COMPLETION	DRAINAGE AREA IN SQ. MILES#	MAX. DEBRIS CAPACITY CU. YDS.	CAPACITY AT BEGINNING OF 1960-61 SEASON	APPROXIMATE DEBRIS DEPOSITION 1959-60	CU. YDS. 1960-61
1. Bailey	Dec. 1954 [1]	0.60	165,700	152,000	(N)	2,164
2. Big Dalton	Jan. 1960	2.62	604,600	604,600	(N)	47,550
3. Lower Big Dalton	1927	0.34	31,600	31,600	(N) [3]	1,554
4. Little Dalton	Jan. 1960	3.31	725,800	725,800	(N)	34,604
5. Rubio	Apr. 1944	1.26	152,300	139,400	(N)	(N)
6. Santa Anita	Dec. 1959	1.70	468,800	453,800	200 [2]	(N)
7. Sawpit	Jan. 1955	2.84	737,700	713,500	16,903	2,690
8. Sierra Madre	Feb. 1928	2.39	151,800	137,700	(N) [3]	(N)
9. Sierra Madre Villa	May 1958	1.46	488,700	487,600	(N)	(N)
10. Sunset	Nov. 1929	0.44	17,500	16,600	(N) [3]	219
11. Verdugo	Mar. 1935	10.09 [4][5]	179,900	179,400	(N) [3]	(N)

DEBRIS BASINS

NAME	DATE OF COMPLETION	DRAINAGE AREA IN SQ. MILES#	MAX. DEBRIS CAPACITY CU. YDS.	CAPACITY AT BEGINNING OF 1960-61 SEASON	APPROXIMATE DEBRIS DEPOSITION 1959-60	CU. YDS. 1960-61
1. Altadena Golf Course	1911	0.62 [5]	12,500	12,000	(N)	(N)
2. Auburn	Dec. 1954	0.19	57,100	53,100	(N)	(N)
3. Bradbury	Jan. 1955	0.68	69,400	65,800	3,569	(N)
4. Brand	Nov. 1935	1.03	72,500	61,500	(N)	103
5. Carter	Dec. 1954	0.12	21,800	19,300	(N)	(N)
6. Cooks	Jan. 1952	0.58*	47,500	42,700	(N)	(N)
7. Deer	Nov. 1954	0.59	44,600	42,000	(N)	(N)
8. Dunsmuir	Mar. 1935	0.84*	124,500	124,500	(N)	2,168
9. Eagle	Oct. 1936	0.61*	72,400	61,900	(N)	335
10. Fair Oaks	Dec. 1935	0.21	28,500	22,400	2,070	25
11. Fern	Dec. 1935	0.30	32,900	29,500	(N)	729
12. Floral (Upper)	Mar. 1954	0.06	2,300	900	(N)	68
13. Floral (Lower)	Mar. 1954	0.11 [6]	0	Ineffective due to street construction		
14. Gooseberry	Sep. 1959	0.26	2,100	2,100	(N)	(N)
15. Gould	Dec. 1947	0.47	53,900	51,000	2,825	3,416
16. Haines [7]	Jun. 1938	1.53	158,600	131,400	(N)	(N)
17. Halls	Nov. 1935	1.06* [8]	93,500	93,500	(N)	4,139
18. Harrow	Mar. 1959	0.43	88,300	88,300	(N)	(N)
19. Hay	Oct. 1936	0.20	39,800	33,200	1,570	6,036
20. Lannan	Mar. 1954	0.25	56,500	44,300	(N)	(N)
21. Las Flores	Apr. 1936	0.45	61,600	54,100	(N)	167
22. La Tuna	Dec. 1960 [9]	5.34	527,600	527.600	(N)	(N)
23. Lincoln	Jan. 1936	0.50	40,900	36,700	(N)	(N)
24. Maddock	Jan. 1955	0.25	32,600	31,500	(N)	(N)
25. May No. 1	Aug. 1953	0.70	67,100	61,700	(N)	(N)

DEBRIS BASINS (Continued)

NAME	DATE OF COMPLETION	DRAINAGE AREA IN SQ. MILES#	MAX. DEBRIS CAPACITY CU. YDS.	CAPACITY AT BEGINNING OF 1960-61 SEASON	APPROXIMATE DEBRIS DEPOSITION 1959-60	CU. YDS. 1960-61
26. May No. 2	Aug. 1953	0.09	6,700	6,500	(N)	(N)
27. Mc Clure	Dec. 1953	0.62	93,300	71,300	(N)	(N)
28. Nichols	Nov. 1937	0.94	32,200	29,000	490	(N)
29. Paradise	Mar. 1952 10/	0.62 5/	14,800	10,300	360	(N)
30. Pickens	Nov. 1935	1.84*	118,400	117,300	1,057	8,180
31. Rowley	Jan. 1954	0.58	43,300	39,900	(N)	333
32. Ruby (Upper)	Jan. 1954	0.21	16,300	14,000	(N)	(N)
33. Ruby (Lower)	Dec. 1955	0.28 6/	32,200	30,450	(N)	226
34. Scholl	Aug. 1945	0.66	30,900	25,400	(N) 3/	(N)
35. Shields	Jan. 1937	0.27*	46,900	36,200	(N)	(N)
36. Snover	Feb. 1937	0.23*	37,900	17,400	(N) 3/	1,181
37. Sparr	Feb. 1947	0.84	15,300	12,300	(N)	(N)
38. Spinks	Feb. 1959	0.44	68,300	64,900	(N)	(N)
39. Stough	Dec. 1960 11/	1.65	147,900	147,900	(N)	(N)
40. Turnbull	Jan. 1953	0.99	26,700	23,600	(N)	250
41. Ward (Upper)	Nov. 1956	0.10* 5/	14,400	14,400	(N)	185
42. Ward (Lower)	Dec. 1944	0.58* 5/	10,400	8,450	(N) 3/	(N)
43. West Ravine	Dec. 1935	0.25	49,600	45,900	(N)	844
44. Wilbur Avenue	Jan. 1956 12/	8.63	41,500	41,500	8,168	5,068
45. Zachau	Aug. 1956	0.35	37,200	35,800	(N)	(N)

NOTES

\# Uncontrolled.
(N) Negligible amounts of debris deposited.
* See footnote (4) below.
1/ Basin was originally constructed in 1945 and enlarged in December 1954.
2/ Figures based on estimate; Total debris inflow was 15,040 cubic yards, most of which was sluiced from Santa Anita Dam.
3/ Volume of debris deposited in basin does not include debris sluiced through open ports or notch.
4/ Excludes 6.07 square miles of drainage area controlled by debris basins designated by *.
5/ Uncontrolled drainage area is based on weighted average of the various area changes resulting from debris basin construction in branches of the drainage or other cultural changes.
6/ Includes drainage area tributary to upper debris basin.
7/ Owned and operated by the Corps of Engineers, Department of the Army.
8/ Includes Webber Canyon.
9/ Basin was originally constructed in February 1956; reconstruction of the basin was completed December 1960.
10/ Basin was originally constructed in 1944; reconstruction of the basin was completed March 1952.
11/ Basin was originally constructed in 1941; first reconstruction was completed October, 1957; second reconstruction of the basin was completed December 1960.
12/ Basin was originally constructed in 1942; reconstruction of the basin was completed January 1956.

GROUND WATER
&
CONSERVATION

WATER CONSERVATION

FOREWORD

Presented herein are data on the District's water conservation program. The data includes amounts of native and imported water conserved in spreading facilities, recharge facilities and by reservoir and channel absorption. Also included are lists of new facilities constructed or modified, ground water maps delineating ground water elevations recorded during 1959-60 and 1960-61 and supplemental information considered to be of interest in this area of work.

The biennial period was marked by severe drought conditions which prolonged the recent dry cycle into its 16th and 17th years and provided only limited amounts of storm runoff for conservation.

SPREADING GROUNDS

There are 3,087 gross acres of spreading grounds in the County, of which the District owns and operates 1,682 acres, and cooperates with other agencies in the maintenance and operation of 1,182 acres more, leaving 223 acres controlled by others. All combined, they have a percolation capacity of more than 1,900 cfs.

The tables on pages 335 to 341 give basic spreading grounds data, the amount of water conserved therein, and the amount of water conserved by means of reservoir and channel absorption. Water conserved in off-channel spreading grounds and through recharge wells amounted to 54,358 acre-feet in 1959-60 and 76,594 acre-feet in 1960-61. Reservoir and natural channel percolation conserved 67,040 acre-feet during 1959-60 and 97,160 acre-feet in 1960-61. These quantities include imported water purchased from the Metropolitan Water District under the District's Water Conservation Zones and Water Replenishment District programs. The quantities of imported water are given in detail hereafter under the heading of ''Imported Water''.

NEW FACILITIES

Spreading operations were commenced or spreading capacity was increased during this period at the following District projects: (For locations refer to Map V, page 343.

Ben Lomond Spreading Grounds - south side, initial development of spreading grounds.

Big Dalton Canyon Spreading Grounds - Diversion facilities, measuring structure, inlet and outlet canals and temporary development east of existing basins.

Branford Spreading Basin - Continued basin excavation and initiation of spreading activities in major portion of basin.

Buena Vista Spreading Basin - Continued basin excavation.

Citrus Spreading Grounds - Initial development of spreading grounds and construction of intake diversion and conveyance facilities.

Dominguez Gap Spreading Grounds - Development of west side basin.

Eaton Spreading Basin - Continued basin excavation.

Irwindale Spreading Basin - Continued basin excavation and initiation of spreading activities in major portion of basin.

Little Dalton Wash Spreading Grounds - Diversion facilities from debris basin.

Live Oak Spreading Grounds - Initial development completed. (Spreading has not commenced.)

Peck Road Spreading Basin - Continued basin excavation and initiation of spreading activities.

Santa Anita Spreading Grounds - Diversion facilities from debris basin.

Construction, which either impaired channel percolation and/or improved offstream spreading facilities, was completed in conjunction with the following Federal flood control projects: Big Dalton Wash, Burbank Western System, Caballero Creek, Little Dalton Wash, Lopez Canyon Channel, Rio Hondo Channel, San Gabriel River, Santa Anita Wash, Sawpit Wash, and Sawtelle Westwood System. Portions of the San Dimas Wash Channel and the Walnut Creek Wash Channel were completed during this period.

WATER QUALITY

The District collects and analyzes samples from streams and wells to obtain a continuing record of water quality and to develop basic norms on the quality of various surface and underground waters within the District. During the period covered by this report 1,593 complete and 2,370 partial analyses were made for this purpose.

Since the latter part of 1952, the District has engaged in a deep well sampling program in the central coastal basin in cooperation with the Central Basin Water Association through the following members: California Water Service Company, Long Beach Water Department, Lynwood Water Department, Southern California Water Company, and Vernon Water Department. The purpose of this study is to determine if the recharge of the basin with imported waters has any important effect on the quality of native waters. Samples from some 51 representative deep wells in the region have been collected annually and analyzed for chemical quality by the cooperating agencies and the District's Foundation and Testing Division. The results of these analyses from 1952 to 1961 show no significant changes within this region, despite the fact that over 548,506 acre-feet of Colorado River water have been introduced during a period which has been deficient in percolation from local runoff.

IMPORTED WATER

Operations continued on the program of using imported Colorado River water to replenish depleted ground water basins and for the operation of the West Coast Basin Barrier Project to control sea water intrusion. This imported water has been purchased from the Metropolitan Water District and spread by the District in the Rio Hondo and San Gabriel Spreading Grounds and in the open-bottomed San Gabriel River. Untreated water was used to replenish the Central Basin, and softened and filtered water was used in the operation of the Barrier Project.

For this biennial period, the quantities of water purchased, source of funds, and point of delivery, are indicated in the following table:

IMPORTED WATER SUMMARY

For Biennial Report Period 1959-1961 Water Years

Delivery Points by Metropolitan Water District*

MONTEBELLO FOREBAY REPLENISHMENT

Source of Funds	Alhambra Wash at Rush Street A.F.	San Gabriel River at San Berdnardino Road A.F.	Live Oak Wash in La Verne A.F.	Totals A.F.
1959-60				
Zone I	37,293	43,311	322	80,926
1960-61				
Zone I	52,139	19,298	9,370	80,807
Water Replenishment District	18,148	48,226	0	66,374
Subtotal	70,287	67,524	9,370	147,181
TOTAL	107,580	110,835	9,692	228,107

WEST COAST BASIN BARRIER PROJECT

	Water Injected, Acre-Feet
1959-60	
Zone II	3,703
1960-61	
Zone II	1,513
Water Replenishment District	2,911
Subtotal	4,424
TOTAL	8,127

*Water delivered at the outlet on Alhambra Wash, flows in a concrete lined channel to the Whittier Narrows Reservoir then via the lined Rio Hondo Channel to the Rio Hondo Spreading Grounds. Deliveries from the outlet on the San Gabriel River are carried approximately four miles in an open bottomed channel through the Whittier Narrows Reservoir to spreading facilities in the San Gabriel River below. Water delivered at Live Oak Wash flows in a concrete channel to Puddingstone Reservoir, then via Walnut Creek Wash, San Gabriel River, and Whittier Narrows Reservoir to the San Gabriel spreading facilities.

The total amount of imported water purchased since the beginning of the various water replenishment programs, including Zone I, Zone II and the Water Replenishment District, has amounted to 578,012 Acre Feet. This includes the imported water purchased during this biennial period.

EXPLORATION WELLS AND OBSERVATION WELLS

In the development planning of new spreading grounds, in geologic exploration of proposed barrier projects, and for control of spreading operations, wells have been drilled to obtain geologic data and to provide for observation of ground water levels. During the biennial period, wells were drilled as follows:

Location	No. of Holes
West Coast Basin - Coastal Strip, Santa Monica Bay	21
Central Basin - Dominguez Gap	78
Central Basin - Alamitos Gap	34
San Gabriel Valley - Vicinity of Ben Lomond Spreading Grounds	8
San Gabriel Valley - Vicinity of San Jose Creek	3
San Gabriel Valley - Walnut Wash Spreading Grounds	1
San Gabriel Valley - Citrus Spreading Grounds	7
Total	152

Geologic logs and water level data for these wells are available in the District's files.

SEASONAL DATA AND MAPS

During the biennial period covered by this report, over 83,300 observations of ground water elevations were secured from 3,738 wells.

Hydrographs for several of the key wells are included in this report on Pages 345 to 362.

Fifteen years of the current 17-year drought period have averaged less than 75 per cent of the 85-year rainfall average. The subnormal rainfall coupled with increased pumping extractions in the County during the present biennial period has resulted in again establishing historical low ground water elevations in many basins in Los Angeles County. This condition has been particularly evident in the Coastal Plain where, with progressive recession, differentials in water levels or pressure gradients between the series of important shallow and deep aquifers have become marked. Formerly, differentials were not appreciable, as both the shallow and deep aquifers had been adequately recharged by rainfall during the previous wet cycle. More recently, however, the differentials became so accentuated and significant as to require at least primary segregation of aquifers on the basis of shallow (upper Pleistocene) and deep (lower Pleistocene) aquifers. Hence, as compared to the ground water maps of the Coastal Plain prepared from 1930 to the fall of 1953 which did not segregate aquifers, but showed composite contours for combined shallow and deep aquifers, current shallow aquifer maps specifically delineate contours for the principal producing shallow and/or merged aquifers. Deep zone maps prepared from 1951 to the fall of 1953 showed composite principal deep aquifer contours in the Central Basin only. Current deep aquifer maps delineate separate contours for the principal deep and or merged producing aquifers in both the Central and West Coast Basins (Maps XIV to XX).

In addition to the maps prepared by this District, ground water maps for Antelope Valley were drawn by the State Department of Water Resources with whom the District collaborates in the collection of data (Maps XXIII and XXIV).

GROUND WATER BASINS

Ground water basins in Los Angeles County are grouped under their five local watershed areas; namely, San Fernando Valley, San Gabriel Valley, Coastal Plain, Santa Clara River Valley, and Antelope Valley. Reference is made to Map No. V, Page for basin locations. For further and more detailed description and discussion of the various ground water basins within the District, reference is made to previous reports on hydrologic data published by the District for the years 1941-42, 1951-53, and 1957-59.

San Fernando Valley:

The Department of Water and Power of the City of Los Angeles supplies the major part of the San Fernando Valley with water imported from the Owens River. There is relatively little draft on the ground water in the western half of the valley, nevertheless, ground water levels continue to recede. In other portions of the valley and in the sub-basins, ground water levels continue to decline and are approaching or have exceeded historic low elevations in the eastern portion of San Fernando Valley, Tujunga Basin, and the western part of the Sylmar Basin.

Ground water maps for the San Fernando Valley are shown on Pages 363 to 369.

San Gabriel Valley:

A portion of the ground water supply to the Main Basin is discharged through Whittier Narrows into the Montebello Forebay of the Central Basin in the form of underflow and effluent seepage, the latter being locally referred to as rising water. Rising water flow fell off rapidly during the biennial period and reached an historic low in the summer of 1961. Following a significant rise in 1958, water levels dropped rapidly and fell below the historic low during the current biennial period.

Ground water maps for the San Gabriel Valley are shown on Pages 371 to 377.

Coastal Plain:

This group consists of the large Central Basin and two smaller basins - West Coast Basin and Hollywood Basin.

Ground water levels over most of the Coastal Plain have resumed their gradual decline after having been temporarily arrested by heavy rainfall in 1958. Portions of the Central Coastal Pressure area have fallen below the historic low, while the decline in the forebay was arrested in 1961. The latter is due to the recharging of the forebay area with imported water.

Ground water maps for the Coastal Plain are shown on Pages 379 to 391.

Santa Clara River Valley:

Ground water levels in the Santa Clara Valley have, in general, continued to drop during the period of this report. Due to the small differential in water levels between spring and fall, and the small amount of storage involved, only the fall ground water contour maps are drawn for this area, and are shown on Pages 393 to 395.

Antelope Valley:

Antelope Valley contains one principal ground water basin, Lancaster Basin, and three smaller sub-basins: Neenach Basin at the west end of the valley; Buttes and Creek Basins in the southeastern part of the valley. In general, ground water levels in the Lancaster Basin and in the sub-basins have dropped steadily for the period of available record commencing in the early 1920's.

Antelope Valley ground water contour maps are shown on Pages 397 to 399.

RESPONSIBILITY

For the period covered in this report, field and office work was under the direction of Arthur E. Bruington, Division Engineer, Water Conservation Division, assisted by Howard H. Haile, Supervising Civil Engineer. During this period, work was supervised by the following section heads: W. Hylen (acting, September 1959 to April 1960); C.J. Reinhard (from May, 1960); G.E. Carlat (until April, 1960); C.H. Thomas (from May, 1960); E.J. Zielbauer; T.H. Stauffer; and A.A. Ingram.

TABLE XIV

RESERVOIR AND CHANNEL ABSORPTION

EXCLUSIVE OF SPREADING GROUNDS ABSORPTION

STREAM	REACH OF STREAM WHERE ABSORPTION OCCURRED	TOTAL RELEASE TO REACH A.F.	ABSORPTION IN CHANNELS, RESERVOIRS AND DIVERSIONS A.F.	EXCESS OF RELEASE OVER ABSORPTION A.F.	YEAR
PACOIMA	DAM TO LINED CHANNEL	269. 6.	269. 1/ 3/ 6. 1/ 3/	0 0	1959-60 1960-61
TUJUNGA	MOUTH OF CANYON TO HANSEN DAM	2590. 1870.	2930. 1/ 3/ 1890. 1/ 3/	0 0	1959-60 1960-61
DEVIL'S GATE	RESERVOIR ONLY		921. 1/ 546. 1/		1959-60 1960-61
EATON	RESERVOIR ONLY		60. 1/ 61. 1/		1959-60 1960-61
SANTA ANITA	DAM TO FOOTHILL BOULEVARD	1150. 407.	288. 1/ 64. 1/	862. 343.	1959-60 1960-61
SAN GABRIEL	MOUTH OF CANYON TO FOOTHILL BOULEVARD (CANYON BASIN)	1950. 6520.	1450. 2830.	500. 3690.	1959-60 1960-61
SAN GABRIEL	FOOTHILL BOULEVARD TO SANTA FE DAM (MAIN BASIN)	558. 177.	499. 1/ 147. 1/	59. 30.	1959-60 1960-61
SAN GABRIEL	SANTA FE DAM TO RISING WATER (MAIN BASIN)	43190. 74880.	10960. 23780.	32230. 51100.	1959-60 1960-61
SAN GABRIEL	RISING WATER TO FLORENCE AVENUE (COASTAL PLAIN)	41880. 2/ 56560. 2/	30010. 3/ 50040. 3/	11870. 6520.	1959-60 1960-61
SAN GABRIEL	FLORENCE AVENUE TO SPRING STREET (COASTAL PLAIN)	1990. 678.	1280. 406.	710. 272.	1959-60 1960-61
RIO HONDO	SANTA FE DAM TO LOWER AZUSA ROAD (MAIN BASIN)	0 0	0 0	0 0	1959-60 1960-61
RIO HONDO	MISSION BRIDGE TO LINED CHANNEL (COASTAL PLAIN)	53830. 2/ 77290. 2/	17830. 15060.	36000. 62230	1959-60 1960-61
SAN DIMAS	DAM TO PUDDINGSTONE DIVERSION DAM AND PUDDINGSTONE DIVERSION DAM TO ALOSTA AVENUE	484. 291.	484. 1/ 3/ 291. 1/ 3/	0 0	1959-60 1960-61
LIVE OAK	DAM TO FOOTHILL BOULEVARD	0 0	0 0	0 0	1959-60 1960-61
WALNUT	PUDDINGSTONE DAM TO SAN GABRIEL RIVER	40. 9460.	40. 2030.	0 7430.	1959-60 1960-61
THOMPSON	DAM TO FOOTHILL BOULEVARD	0 0	2. 1/ 5. 1/	0 0	1959-60 1960-61
SAN ANTONIO	DAM TO BASELINE ROAD	0 0	19. 1/ 0	0 0	1959-60 1960-61
TOTALS			67040. 97160.		1959-60 1960-61

NOTES: 1/ INCLUDES PERCOLATION AND EVAPORATION LOSSES IN RESERVOIR.
2/ INCLUDES RISING WATER IN VICINITY OF WHITTIER NARROWS.
3/ INCLUDES WATER DIVERTED FOR USE.
EXCESS OF RELEASE OVER ABSORPTION INCLUDES WATER PERCOLATED IN OFF-CHANNEL SPREADING GROUNDS.

TABLE XV

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF DATA ON SPREADING GROUNDS
OWNED AND OPERATED BY THE DISTRICT
SEPTEMBER 1961

GROUNDS	TYPE	SEASON FIRST USED	AREA IN ACRES		CAPACITIES				LOCATION	SOURCE OF WATER	REMARKS
			GROSS	WETTED	CHANNEL* CFS	INTAKE CFS	STORAGE A.F.	PERC. CFS			
LOPEZ	SHALLOW BASINS	1956-57	18	13		25	25	22	SOUTHEASTERLY SIDE OF PACOIMA WASH, NORTHEASTERLY OF FOOTHILL BOULEVARD.	CONTROLLED FLOW FROM PACOIMA DAM AND LOPEZ FLOOD CONTROL BASIN.	THE FLOW IS DIVERTED FROM LOPEZ FLOOD CONTROL BASIN VIA CANAL TO THE SPREADING GROUNDS. GROSS AREA INCLUDES 1.3 ACRES IN EASEMENT, EDISON COMPANY, AND 3.26 ACRES IN STREETS, BUT EXCLUDES CANAL AREA NORTHWESTERLY SIDE OF CHANNEL.
PACOIMA	SHALLOW BASINS	1932-33	175	122	17,000	400	330	165	BOTH SIDES OF OLD PACOIMA WASH CHANNEL FROM ARLETA STREET SOUTHWESTERLY TO WOODMAN AVENUE.	CONTROLLED FLOW FROM PACOIMA DAM. PARTIALLY CONTROLLED FLOW FROM LOPEZ FLOOD CONTROL BASIN. UNCONTROLLED FLOW FROM EAST CANYON & PACOIMA WASH.	DIVERSION FROM PACOIMA DIVERSION CHANNEL PLACED IN USE APRIL 1954. GROSS AREA EXCLUDES NEW CHANNEL BUT INCLUDES YARD AREA TO PAXTON STREET AND AREA FOR ACCESS TO DIVERSION HEADWORKS.
HANSEN	SHALLOW BASINS	1944-45	156	110	22,000	450	230	210	NORTHWESTERLY SIDE OF TUJUNGA WASH FROM ABOVE GLENOAKS BOULEVARD SOUTHWESTERLY TO SAN FERNANDO ROAD.	CONTROLLED FLOW FROM HANSEN DAM AND BIG TUJUNGA DAM.	GROSS AREA INCLUDES ALL LANDS NORTHWESTERLY OF LINE 50'± FROM AND PARALLEL TO NORTHWESTERLY CHANNEL WALL.
BRANFORD	DEEP BASINS	1956-57	12		1,540	1,540	135	15	SOUTHWESTERLY OF ARLETA STREET ABOVE CONFLUENCE OF TUJUNGA CHANNEL AND PACOIMA DIVERSION CHANNEL.	UNCONTROLLED FLOWS FROM BRANFORD STREET-CANTARA STREET DRAIN.	BASIN UNDER DEVELOPMENT, THEREFORE STORAGE AND PERCOLATING CAPACITY SUBJECT TO CHANGE. OUTLET CAPACITY = 1540 CFS.
ARROYO SECO	SHALLOW BASINS	1948-49	24	13		100	30	26	EASTERLY SIDE OF ARROYO SECO, LOWER END 0.5 MILE ABOVE DEVIL'S GATE DAM.	UNCONTROLLED FLOW FROM ARROYO SECO AND THE ALTADENA STORM DRAIN.	GROSS AREA INCLUDES 10 ACRES OF THE 19.3 ACRE SPREADING GROUNDS EASEMENT AND APPROXIMATELY 14 ACRES OF DEVIL'S GATE RESERVOIR EASEMENT. SPILLWAY CAP. = 400 CFS.
EATON SPREADING GROUNDS	DEEP AND SHALLOW BASINS	1947-48	29	23	6,600	100	420	15	EASTERLY SIDE OF EATON WASH BELOW EATON DAM TO FOOTHILL BOULEVARD.	CONTROLLED FLOW FROM EATON WASH DAM AND SIERRA MAORE VILLA CHANNEL.	GROSS AREA INCLUDES PART OF CHANNEL R/W UTILIZED FOR SPREADING GROUNDS IN EASEMENT FOR CANAL TO BASIN NO. 3 FROM EDISON CO. NET AREA OF BASIN NO. 1 = 2.4 ACRES, BASIN NO. 2 = 5 ACRES, BASIN NO. 3 = 7.5 ACRES AND CANALS = 2 ACRES. ALSO 14 ACRES OF STRIP BASINS ALONG EATON WASH TO FOOTHILL BOULEVARD.
SANTA ANITA	SHALLOW BASINS	1944-45	20	8		20	25	7	WESTERLY SIDE OF SANTA ANITA WASH 1.25 MILES ABOVE FOOTHILL BOULEVARD.	CONTROLLED FLOW FROM SANTA ANITA DAM AND SANTA ANITA DEBRIS DAM.	GROSS AREA EXCLUDES PIPELINE AND SPREADING HEADWORKS R/W.
SAWPIT	SHALLOW BASINS	1946-47	12	4		30	13	12	WESTERLY SIDE OF SAWPIT WASH BELOW MOUTH OF CANYON AT HEAD OF NORUMBEGA STREET, MONROVIA.	PARTIALLY CONTROLLED FLOWS FROM SAWPIT DAM AND SAWPIT DEBRIS DAM.	GROSS AREA INCLUDES 0.89 ACRE UNDER EASEMENT FOR ORIGINAL INTAKE AND PIPELINE. R/W ON EASTERLY SIDE OF CHANNEL FOR CANAL. PIPELINE AND ACCESS NOT INCLUDED IN GROSS.
LITTLE DALTON	DITCHES AND CHECKS	1931-32	16			20		10	WESTERLY OF GLENDORA MT. ROAD, FROM LITTLE DALTON DEBRIS DAM SOUTH TO EAST PALM DRIVE.	CONTROLLED FLOW FROM LITTLE DALTON DEBRIS DAM.	FORMERLY OPERATED BY GLENDORA IRRIGATING CO. ACQUIRED BY DISTRICT JULY, 1960.
BIG DALTON	SHALLOW BASINS, DITCHES, AND CHECKS	1930-31	24	9		45	25	15	WESTERLY SIDE OF BIG DALTON WASH, INTAKE 1/2 MILE ABOVE SIERRA MADRE AVENUE.	CONTROLLED FLOWS FROM BIG DALTON DAM AND BIG DALTON DEBRIS DAM.	ACQUIRED IN FEE WITH CERTAIN RESTRICTIONS (SEE AGREEMENT DATED APRIL 7, 1954) BY LACFCD FROM CITY OF GLENDORA ET. AL.
LIVE OAK	SHALLOW BASINS		5	1		15	2	2	EAST SIDE OF LIVE OAK WASH, NORTH OF BASE LINE ROAD (PROJECTED).	CONTROLLED FLOW FROM LIVE OAK DAM.	TEMPORARY DEVELOPMENT COMPLETED IN 1960. NO WATER SPREAD TO DATE.
EATON SPREADING BASIN	DEEP BASIN	1956-57	16		9,600	400	220	10	EAST SIDE OF EATON CHANNEL NORTH OF DUARTE ROAD. 0.6 MILE SOUTH OF HUNTINGTON DRIVE.	CONTROLLED FLOW FROM EATON WASH DAM AND UNCONTROLLED FLOWS BETWEEN DAM AND SPREADING BASIN.	BASIN UNDER DEVELOPMENT, THEREFORE, STORAGE AND PERCOLATING CAPACITY SUBJECT TO CHANGE. EASEMENT FOR ACCESS AND ENCROACHING SLOPE ACQUIRED FROM EDISON CO. NOT INCLUDED IN GROSS AREA.
PECK ROAD	DEEP BASIN	1959-60	157	85		30,100	2,620	50	CONFLUENCE OF SAWPIT AND SANTA ANITA WASHES.	ALL FLOWS IN SAWPIT AND SANTA ANITA WASHES.	ULTIMATE DEVELOPMENT WILL CONSIST OF ONE BASIN WITH A CAPACITY OF 6,700 ACRE FEET.
BUENA VISTA	DEEP BASIN	1954-55	10		2,900	2,900	194	30	1.0± MILE EASTERLY OF SAWPIT WASH, 0.5+ MILE NORTHERLY OF ARROW HIGHWAY, BETWEEN MERIDIAN STREET AND BUENA VISTA CHANNEL.	CONTROLLED FLOW FROM SANTA FE DAM AND UNCONTROLLED FLOW FROM BUENA VISTA CHANNEL.	NO OUTFLOW EXPECTED FOR CAPITAL STORM, BUT A SMALL OUTLET STRUCTURE OF 150 CFS PROVIDED. INLET CAPACITY OF SANTA FE DIVERSION = 120 CFS.
SANTA FE	SHALLOW BASINS	1953-54	193	133		500	200	220	WITHIN SANTA FE DAM RESERVOIR AREA, NORTH OF SPILLWAY.	CONTROLLED FLOWS FROM SAN GABRIEL CANYON AND UNCONTROLLED FLOWS FROM BRADBURY CHANNEL AND SAN GABRIEL RIVER BELOW MORRIS RESERVOIR.	RIGHT OF WAY, HELD UNDER LICENSE FROM THE FEDERAL GOVERNMENT, INCLUDES 30± ACRES IN SAN GABRIEL RIVER BED FOR EARTH DIVERSION LEVEE. BRADBURY CHANNEL FLOW (CAPACITY OF 4900 CFS) DISCHARGES INTO BASIN NO. 4.

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF DATA ON SPREADING GROUNDS
OWNED AND OPERATED BY THE DISTRICT
SEPTEMBER 1961

GROUNDS	TYPE	SEASON FIRST USED	AREA IN ACRES		CAPACITIES				LOCATION	SOURCE OF WATER	REMARKS
			GROSS	WETTED	CHANNEL* CFS	INTAKE CFS	STORAGE A.F.	PERC. CFS			
IRWINDALE	DEEP BASIN	1958-59	17		20,000	200	366	20	NORTHEASTERLY OF INTERSECTION OF BIG DALTON CHANNEL AND IRWINDALE AVENUE, CONTINUES 1300 FEET EAST OF IRWINDALE AVENUE.	BIG DALTON CHANNEL CONTROLLED FLOWS FROM BIG AND LITTLE DALTON DEBRIS DAMS AND PUDDINGSTONE DIVERSION DAM: UNCONTROLLED FLOWS	NORTHWEST CORNER UNEXCAVATED, ULTIMATE CAPACITY 430 ACRE-FEET.
CITRUS	SHALLOW BASINS	1960-61	19	15	-	25	20	20	SOUTH SIDE OF BIG DALTON WASH BETWEEN CITRUS AND CERRITOS AVENUES.	CONTROLLED RELEASES FROM AZUSA IRRIGATION CO. PIPELINE.	SPREADING GROUNDS ARE UTILIZED TO CONSERVE EXCESS SURFACE SAN GABRIEL CANYON WATER RELEASES TO THE AZUSA IRRIGATION CO.
BEN LOMOND	SHALLOW BASINS	1958-59	24	17	-	25	25	20	BOTH NORTH AND SOUTH SIDES OF SAN DIMAS WASH CHANNEL AT SOUTHWESTERLY CORNER OF INTERSECTION OF ARROW HIGHWAY AND BEN LOMOND AVENUE.	CONTROLLED RELEASES FROM COVINA IRRIGATING COMPANY PIPELINE.	SPREADING GROUNDS UTILIZED TO CONSERVE EXCESS SURFACE SAN GABRIEL CANYON WATER RELEASES TO THE COVINA IRRIGATING CO.
SAN GABRIEL COASTAL	SHALLOW BASINS	1938-39	127	96	-	200	400	80	WESTERLY SIDE OF SAN GABRIEL RIVER, SOUTHERLY FROM WHITTIER BOULEVARD TO WASHINGTON BOULEVARD.	SAN GABRIEL RIVER FLOWS CONTROLLED BY COGSWELL DAM, SAN GABRIEL DAM, MORRIS DAM AND SANTA FE DAM. WALNUT CREEK FLOWS PARTIALLY CONTROLLED, SAN JOSE CREEK FLOWS UNCONTROLLED.	62.2 ACRES HELD UNDER PERPETUAL EASEMENT. 55.1 ACRES OWNED IN FEE. ALL AREA BEING ACQUIRED IN FEE. ADDITIONAL 10 ACRES OF CHANNEL R/W FOR SPREADING GROUNDS CANAL. SPILLWAY CAPACITY = 400 CFS.
RIO HONDO COASTAL (EAST SIDE)	SHALLOW BASINS	1937-38	423	370	40,000	750	1,600	350	EASTERLY SIDE OF RIO HONDO SOUTHERLY FROM U.P.R.R. (SOUTH OF WHITTIER BOULEVARD) TO SLAUSON AVENUE.	SAN GABRIEL RIVER FLOWS CONTROLLED BY COGSWELL, SAN GABRIEL, MORRIS, SANTA FE, AND WHITTIER NARROWS DAMS; FLOWS FROM RIO HONDO, RUBIO WASH, ALHAMBRA WASH AND EATON WASH CONTROLLED BY WHITTIER NARROWS DAM: UNCONTROLLED FLOWS BETWEEN WHITTIER NARROWS DAM AND THE HEADWORKS.	IN COOPERATION WITH THE CORPS OF ENGINEERS, THE DISTRICT OPERATES A 1000 ACRE-FOOT POOL AT WHITTIER NARROWS DAM FOR RETENTION FOR RETENTION OF FLOOD WATER WHICH CAN BE RELEASED TO RIO HONDO SPREADING GROUNDS.
RIO HONDO STREAMBED DEVELOPMENT (WEST SIDE)	SHALLOW BASINS	1955-56	151	89	40,000	150	275	135	WEST SIDE OF RIO HONDO CHANNEL FROM ABOVE WHITTIER BOULEVARD SOUTH TO FOSTER BRIDGE BOULEVARD.	CONTROLLED FLOWS SAME AS RIO HONDO COASTAL (EAST SIDE). ALSO UNCONTROLLED STREET DRAINS. FLOWS FROM THE EAST SIDE GROUNDS AND RISING WATER.	THIS GROUND COMPENSATES FOR THE LOSS OF HISTORICAL, NATURAL PERCOLATION INCLUDING RISING WATER INFILTRATED IN THE AREA NOW PAVED.
DOMINGUEZ GAP	DEEP BASINS	1957-58	54	26		20	237	6	CONTINUES 1.0 MILE SOUTH FROM DEL AMO BOULEVARD, AND BORDERS THE EASTERN AND WESTERN SIDES OF THE LOS ANGELES RIVER.	CONTROLLED FLOW FROM LOS ANGELES RIVER LOW FLOW CHANNEL AND UNCONTROLLED FLOWS FROM STORM DRAINS.	EAST SIDE BASIN IS USED FOR FLOOD REGULATION WITH SOME CONSERVATION STORAGE. INTAKE OF 20 CFS IS THE FIGURE FOR LOW FLOW DIVERSION FROM THE LOS ANGELES RIVER. WEST SIDE BASIN IS FED BY A 42-INCH CONCRETE PIPE FROM THE EAST SIDE BASIN.
TOTALS			1,682					1,440			

*DESIGN CAPACITY OF MAIN CONCRETE CHANNEL WHEN PERTINENT TO SPREADING GROUNDS OPERATIONS

TABLE XVI

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF WATER SPREAD AT GROUNDS
OWNED AND OPERATED BY THE DISTRICT
SEPTEMBER 1961

RECORD OF WATER SPREAD
ACRE FEET

	SAN FERNANDO VALLEY				SAN GABRIEL VALLEY - FOOTHILLS							MAIN SAN GABRIEL VALLEY								
SEASON	LOPEZ	PACOIMA	HANSEN	BRANFORD	ARROYO SECO	EATON S.G.	SANTA ANITA	SAWPIT	LITTLE DALTON	BIG DALTON CANYON	LIVE OAK	EATON S.B.	PECK ROAD	BUENA VISTA	SANTA FE	IRWINDALE	CITRUS	BEN LOMOND	SUBTOTAL	SEASON
1930 - 31										10									10	1930 - 31
32									160	394									554	32
33		26							0	0									26	33
34		230							0	100									330	34
35		1,200							0	131									1,331	35
36		2,000							0	0									2,000	36
37		4,680							275	866									5,821	37
38		3,844							287	397									4,528	38
39		363							12	49									424	39
40		907							0	0									907	40
41		9,775							1,166	1,528									12,469	41
42		37							0	0									37	42
43		3,744							1,084	1,191									6,019	43
44		7,223							469	543									8,235	44
45		1,467	7,651				337		290	64									9,809	45
46		514	2,268				0		73	47									2,902	46
47		3,763	8,725				141	89	89	174									12,981	47
48		0	0			1	0	0	0	0									1	48
49		0	0		108	0	0	8	0	88									204	49
50		245	0		283	61	0	0	28	66									683	50
51		0	0		19	0	0	19	0	0									38	51
52		6,121	16,780		986	1,196	448	517	563	856									27,467	52
53		1,651	1,271		216	0	58	56	9	3									3,264	53
54		1,891	1,014		455	190	265	0	161	370					3,500				7,846	54
55		205	0		197	0	145	0	0	0				10	0				557	55
56	0	566	2	0	301	181	161	180	30	180		0		227	0				1,828	56
57	28	475	0	38	397	0	2	38	11	16		260		817	0				2,082	57
58	1,030	10,922	18,407	20	2,088	861	1,576	978	658	2,380		1,236		2,730	12,752				55,638	58
59	0	352	1,023	+	352	130	185	199	22	145		441		1,087	181	(A) 242		1,431	5,790	59
60	0	379	0	6±	0	0	810	38	0	0		501	970±	1,230±	59	(A) 934		1,055	5,982	60
61	0	78	0	180±	0	0	304	29	0	27	0	165	478	700±	30	256	1,133	732	4,112	61
TOTALS	1,058	62,658	57,141	244	5,402	2,620	4,432	2,151	5,387	9,625	0	2,603	1,448	6,801	16,522	1,432	1,133	3,218	183,875	TOTALS

(A) INCLUDES IMPORTED MWD WATER PURCHASED UNDER CONTRACT WITH SAN GABRIEL VALLEY LABOR ASSOCIATION

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF WATER SPREAD AT GROUNDS
OWNED AND OPERATED BY THE DISTRICT
SEPTEMBER 1961

RECORD OF WATER SPREAD
ACRE FEET

SEASON	COASTAL PLAIN												DOMINGUEZ GAP	SUBTOTAL	TOTAL	SEASON
	SAN GABRIEL COASTAL				RIO HONDO COASTAL (EAST SIDE)				RIO HONDO STREAMBED (WEST SIDE)							
	LOCAL	IMPORTED		TOTAL	LOCAL	IMPORTED		TOTAL	LOCAL	IMPORTED		TOTAL				
		ZONE 1	REPLENISHMENT			ZONE 1	REPLENISHMENT			ZONE 1	REPLENISHMENT					
1930 - 31															10	1930 - 31
32															554	32
33															26	33
34															330	34
35															1,331	35
36															2,000	36
37															5,821	37
38					3,660			3,660						3,660	8,188	38
39	2,603			2,603	0			0						2,603	3,027	39
40	0			0	1,702			1,702						1,702	2,609	40
41	4,684			4,684	9,830			9,830						14,514	26,983	41
42	0			0	2,170			2,170						2,170	2,207	42
43	0			0	0			0						0	6,019	43
44	0			0	0			0						0	8,235	44
45	0			0	0			0						0	9,809	45
46	0			0	9,548			9,548						9,548	12,450	46
47	384			384	4,842			4,842						5,226	18,207	47
48	0			0	3,760			3,760						3,760	3,761	48
49	0			0	0			0						0	204	49
50	0			0	0			0						0	683	50
51	0			0	0			0						0	38	51
52	5,412			5,412	400			400						5,812	33,279	52
53	4,023			4,023	3,368			3,368						7,391	10,655	53
54	0	3,573		3,573	4,621	2,075		6,696						10,269	18,115	54
55	331	2,286		2,617	0	4,119		4,119						6,736	7,293	55
56	0	6,579		6,579	1,924	5,767		7,691	0	2,586		2,586		16,856	18,684	56
57	137	382		519	7,163	9,533		16,696	323	6,747		7,070		24,285	26,367	57
58	5,447	6,169		11,616	25,044	38,013		63,057	5,363	21,758		27,121	107	101,901	157,539	58
59	2,074	7,500		9,574	4,669	11,193		15,862	795	10,358		11,153	87	36,676	42,466	59
60	0	9,876		9,876	5,082	13,169		18,251	2,184	14,282		16,466	80±	44,673	50,655	60
61	0	1,464	4,378	5,842	2,949	33,881	10,259	47,089	11	9,967	4,789	14,767	360±	68,058	72,170	61
TOTALS	25,095	37,829	4,378	67,302	90,732	117,750	10,259	218,741	8,676	65,698	4,789	79,163	634	-	549,715	TOTALS

TABLE XVII

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF DATA ON SPREADING GROUNDS
NOT OWNED BY THE DISTRICT
SEPTEMBER 1961

GROUNDS	TYPE	SEASON FIRST USED	AREA IN ACRES		CAPACITIES				LOCATION	SOURCE OF WATER	REMARKS
			GROSS	WETTED	CHANNEL* CFS	INTAKE CFS	STORAGE A.F.	PERC. CFS			
GROUNDS IN WHICH DISTRICT DOES CONSTRUCTION, MAINTENANCE AND SOME OPERATIONS:											
SIERRA MADRE	SHALLOW BASINS	ABOUT 1933	22	9		25	47	18	CITY OF SIERRA MADRE, SOUTH SIDE OF GRANDVIEW AVENUE, ONE HALF MILE WEST OF SANTA ANITA AVENUE.	LITTLE SANTA ANITA CREEK AND STREET RUNOFF ONLY PRIOR TO 1951-52. STARTING IN 1951-52 ALSO CONTROLLED FLOWS FROM SANTA ANITA DAM.	NO RECORDS OF WATER SPREAD PRIOR TO 1951-52. GROUNDS REBUILT IN 1951. ULTIMATE CAPACITY ESTIMATED 25 CFS. THREE BASINS ADDED IN SUMMER OF 1959.
SAN GABRIEL SPREADING CORP. EAST SIDE	DITCHES AND CHECKS	ABOUT 1917	500	-	-	-	-	100	EASTERLY SIDE OF SAN GABRIEL RIVER, BELOW MOUTH OF CANYON, NORTH OF THE CITY OF AZUSA.	SAN GABRIEL RIVER, CONTROLLED RELEASES FROM COGSWELL DAM, SAN GABRIEL DAM AND MORRIS DAM.	DISTRICT DELIVERS WATER, DOES HYDROGRAPHIC WORK AND SOME CONSTRUCTION, SOME WATER ALSO DIVERTED THROUGH AZUSA AND COVINA CANALS FOR PERCOLATION IN MAIN BASIN, INCLUDING CHANNEL PERCOLATION, CITRUS AND BEN LOMOND SPREADING GROUNDS, AND IRWINDALE SPREADING BASIN. NO RECORDS KEPT BEFORE 1919-20.
WEST SIDE (INCLUDING FISH CREEK SPREADING GROUNDS)	SHALLOW BASINS	ABOUT 1917	6±	4	-	-	-	7	WESTERLY SIDE OF SAN GABRIEL RIVER BELOW MOUTH OF FISH CANYON AND NORTH OF THE CITY OF AZUSA.	SAN GABRIEL RIVER, CONTROLLED RELEASES FROM COGSWELL DAM, SAN GABRIEL DAM, AND MORRIS DAM, VIA DUARTE DITCH.	DISTRICT DELIVERS WATER, DOES HYDROGRAPHIC WORK AND SOME CONSTRUCTION. SOME WATER ALSO PERCOLATES IN SAN GABRIEL RIVER IN VICINITY OF SPREADING GROUNDS AND IN BRUSH LAND WHERE IRRIGATION WASTE LINES DISCHARGE, NO SEPARATE RECORDS KEPT PRIOR TO 1926-27.
THOMPSON CREEK	DITCHES CHECKS AND DEEP BASIN	ABOUT 1928	56	40	-	70	-	40	SOUTHERLY FROM, AND ADJACENT TO THOMPSON CREEK DAM, EAST SIDE OF CREEK.	COBAL, WILLIAMS, PALMER AND PADUA CREEKS, ALSO THOMPSON CREEK, WHEN RESERVOIR ABOVE ELEV. 1625.	HELD UNDER EASEMENT BY THE DISTRICT, OPERATED BY POMONA VALLEY PROTECTIVE ASSOCIATION IN ADDITION TO THE 56.4 ACRES SOME AREA WITHIN THOMPSON CREEK RESERVOIR IS USED TO SPREAD STORM FLOWS. WATER SPREAD IN AREA SINCE ABOUT 1918.
SAN ANTONIO	DITCHES CHECKS AND SHALLOW BASINS	1921-22	598	300	8,000	300	-	300	BOTH SIDES OF SAN ANTONIO CREEK, FROM TWO AND ONE HALF MILES ABOVE BASE LINE SOUTHWESTERLY TO BASE LINE.	CONTROLLED RELEASES FROM THE RECENTLY COMPLETED SAN ANTONIO FLOOD CONTROL DAM.	HELD UNDER EASEMENT BY THE DISTRICT, OPERATED BY POMONA VALLEY PROTECTIVE ASSOCIATION, WEST SIDE OF CHANNEL 500 ACRES, EAST SIDE OF CHANNEL 98 ACRES. IN ADDITION THERE ARE 207 ACRES EAST OF CHANNEL IN SAN BERNARDINO COUNTY, WATER SPREAD IN VICINITY ON AND OFF AS EARLY AS ABOUT 1896.
TOTALS			1182	-	-	-	-	465			
GROUNDS CONTROLLED BY OTHERS, THE DISTRICT COOPERATING:											
CITY OF POMONA	DITCHES CHECKS AND DEEP BASINS	(SEE REMARKS)	10	8	-	-	-	-	NORTH OF CLAREMONT, ONE HALF MILE NORTH OF FOOTHILL BOULEVARD AND 1/8 MILE WEST OF MILLS AVENUE.	SAN ANTONIO CREEK WATER DELIVERED THROUGH LOOP MERSERVE CANYON WATER CO'S. PIPE LINE. ALSO SOME LOCAL RUNOFF.	WATER SPREAD IN VICINITY ON AND OFF SINCE ABOUT 1897. GROUND ACQUIRED BY CITY OF POMONA, OCTOBER 1926. NO RECORD OF WATER SPREAD PRIOR TO 1949-50. DEEP BASIN COMPLETED IN 1957.
LOS ANGELES WATER DEPARTMENT TUJUNGA WASH	SHALLOW BASINS	1931-32	180	65	-	-	-	-	SAN FERNANDO VALLEY, EAST SIDE OF TUJUNGA WASH AT ROSCOE BOULEVARD.	LOS ANGELES CITY'S OWENS VALLEY AQUEDUCT.	PRIOR TO 1938 FLOOD, USED 80 ACRES NET. TUJUNGA CHANNEL ON WESTERLY SIDE OF GROUNDS PAVED IN 1950. DIVERSION OF TUJUNGA FLOWS TO GROUNDS PROPOSED. AT PRESENT A LAND EXCHANGE IS IN PROGRESS WITH HIGHWAY DEPARTMENT.
LOS ANGELES RIVER	SHALLOW	1938-39	33	28	57,000	-	-	-	SAN FERNANDO VALLEY, SOUTH OF LOS ANGELES RIVER, ABOVE MARIPOSA STREET.	LOS ANGELES RIVER, PARTIALLY CONTROLLED BY VARIOUS DAMS. RELEASE OF OWENS VALLEY WATER FROM CHATSWORTH RESERVOIR. GROUND WATER FROM WELLS IN THE WEST END OF SAN FERNANDO VALLEY.	CRYSTAL SPRINGS INFILTRATION AREA, NOT REGULAR SPREADING GROUNDS, WATER PUMPED OUT FROM COLLECTING GALLERIES UNDER AREA. IN OCTOBER 1958 A 130-FOOT COLLAPSIBLE RUBBER DAM WAS INSTALLED ACROSS LOS ANGELES RIVER.
TOTALS			223	-	-	-	-	-			

*DESIGN CAPACITY OF MAIN CONCRETE CHANNEL WHEN PERTINENT TO SPREADING GROUNDS OPERATION

TABLE XVIII

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
WATER CONSERVATION DIVISION
SUMMARY OF DATA ON SPREADING GROUNDS
NOT OWNED BY THE DISTRICT
SEPTEMBER 1961

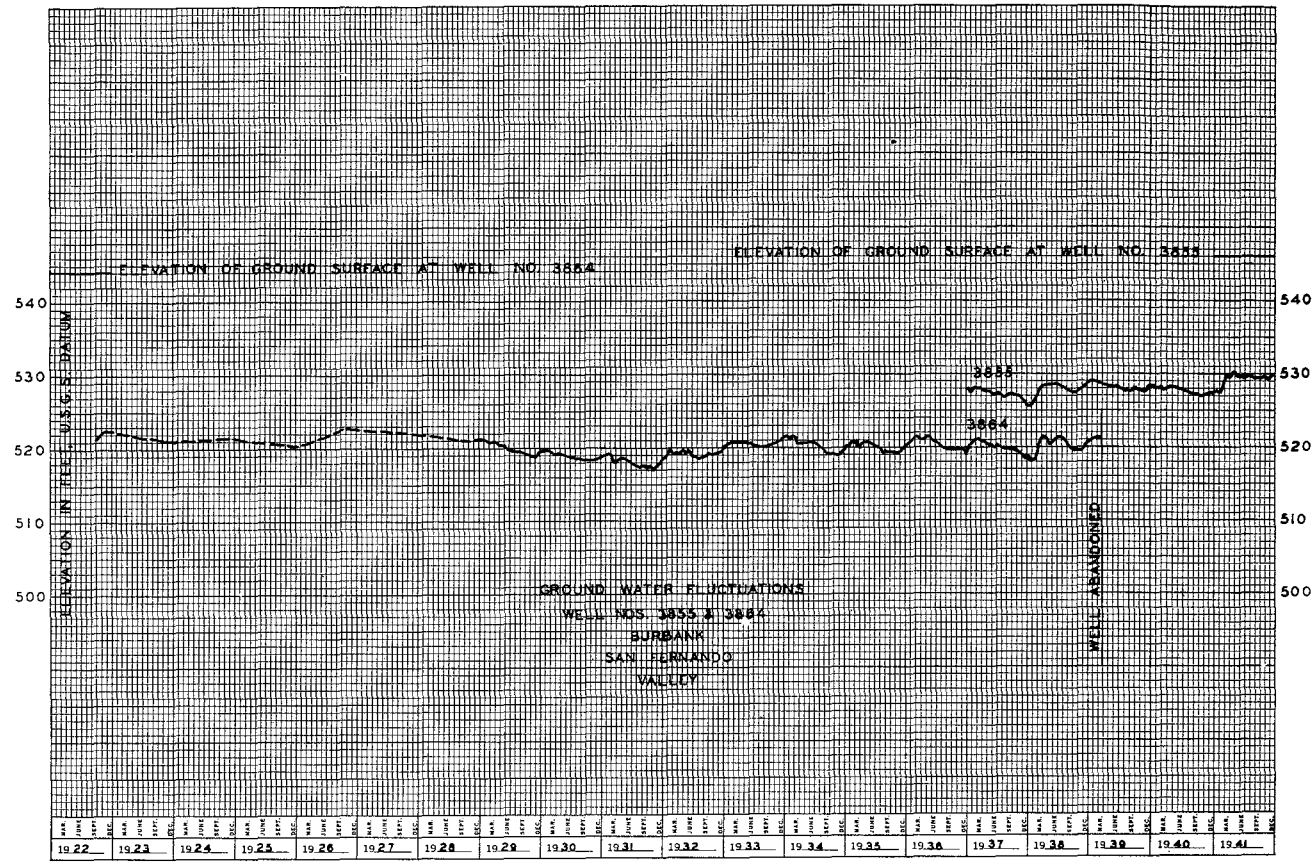
RECORD OF WATER SPREAD
ACRE FEET

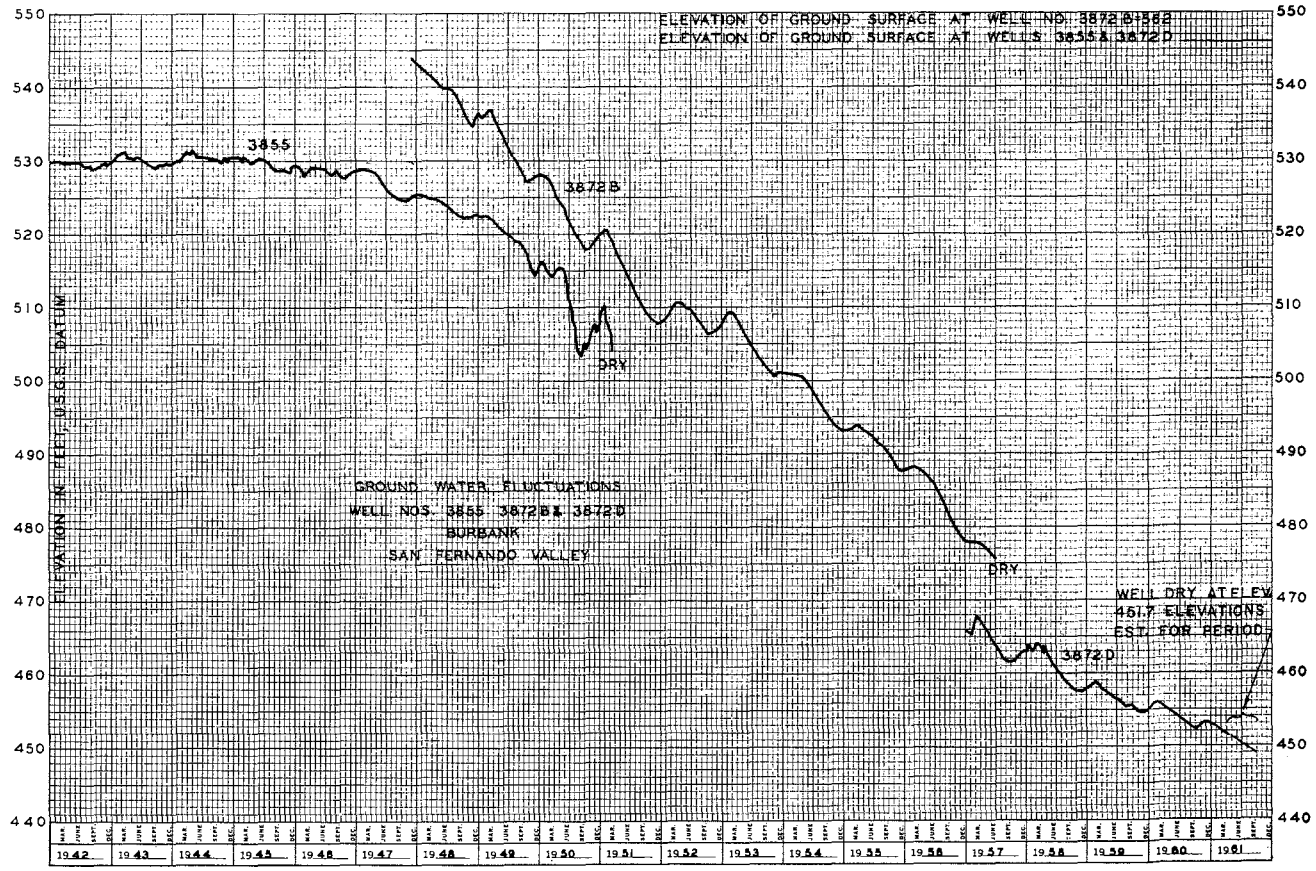
SEASON	GROUNDS IN WHICH DISTRICT DOES CONSTRUCTION MAINTENANCE AND SOME OPERATIONS						GROUNDS CONTROLLED BY OTHERS THE DISTRICT COOPERATING			TOTAL	SEASON
	CITY SIERRA MADRE		S.G. SPRDG. CORP.		THOMPSON CREEK (D)	SAN ANTONIO (B)	CITY OF POMONA	L.A. WATER DEPT.			
	SANTA ANITA WATER	LOCAL WATER	CANYON BASIN	MAIN BASIN				TUJUNGA WASH	L.A. RIVER		
1919-20			7,974							7,974	1919-20
21			10,082							10,082	21
22			6,132			(C)				6,132	22
23			12,408			(C)				12,408	23
24			5,069			(C)				5,069	24
25			2,878			(C)				2,878	25
26			8,443			(C)				8,443	26
27			18,560	2,707		8,090	(C)			29,357	27
28			17,537	3,270	(C)	(C)	(C)			20,807	28
29			15,615	3,501	(C)	(C)	(C)			19,116	29
30			16,607	5,898	(C)	(C)	(C)			22,505	30
31			8,360	5,827	(C)	201	(C)			14,388	31
32			25,328	12,106	(C)	7,601	(C)	20,338		65,573	32
33			13,386	6,620	(C)	111	(C)	26,873		46,990	33
34		(C)	12,401	4,506	(C)	630	(C)	20,795		38,332	34
35		(C)	34,315	17,692	(C)	6,834	(C)	24,775		83,616	35
36		(C)	17,997	6,975	(C)	1,652	(C)	19,310		45,934	36
37		(C)	33,814	20,297	(C)	22,552	(C)	8,736		85,399	37
38		(C)	31,627	13,134	(C)	15,000	(C)	5,732		65,493	38
39		(C)	17,815	6,194	(C)	1,433	(C)	12,258	(D)	37,700	39
40		(C)	19,304	8,544	0	2,670	(C)	3,024	(D)	33,542	40
41		(C)	45,618	13,298	563	28,093	(C)	3,446	(D)	91,018	41
42		(C)	21,392	8,241	0	83	(C)	11,290	(D)	41,006	42
43		(C)	24,502	7,702	505	26,000	(C)	12,134	(D)	70,843	43
44		(C)	31,130	9,820	37	10,270	(C)	3,192	(D)	54,449	44
45		(C)	34,681	14,467	18	4,957	(C)	0	17,518	71,641	45
46		(C)	23,351	12,745	5	3,271	(C)	0	21,141	60,513	46
47		(C)	23,716	8,936	0	5,801	(C)	1,686	18,738	58,877	47
48		(C)	4,796	2,218	0	6	(C)	0	19,016	26,036	48
49		(C)	2,874	1,343	0	0	(C)	0	6,451	10,668	49
50		(C)	9,125	2,590	0	55	450±	762	7,691	20,673	50
51		(C)	1,378	622	0	3	0	2,355	4,917	9,275	51
52	1,547	384	27,847	8,361	163	10,467	952	7,269	1,524	58,514	52
53	257	5	15,765	5,705	0	1,011	357	0	7,424	30,524	53
54	470	113	18,021	4,960	0	3,150	916	0	6,648	34,278	54
55	288	50	20,328	6,096	0	0	838	0	10,867	38,467	55
56	349	80	19,135	8,406	0	927	660	0	6,553	36,110	56
57	295	36	16,225	6,199	0	0	1,341	0	4,784	28,880	57
58	3,897	313	47,419	7,616	164	12,881	3,026	0	6,278	81,594	58
59	343	14	24,558	6,176(A)	0	0	2,820	0	9,045	42,956	59
60	43	2	6,111	(E)	0	0	963	0	8,040	15,159	60
61	41	2	2,534		0	0	12	0	6,121	8,710	61
TOTALS	7,530	999	756,158	252,772	1,455	173,949	12,335	183,975	162,756	1,551,929	TOTALS

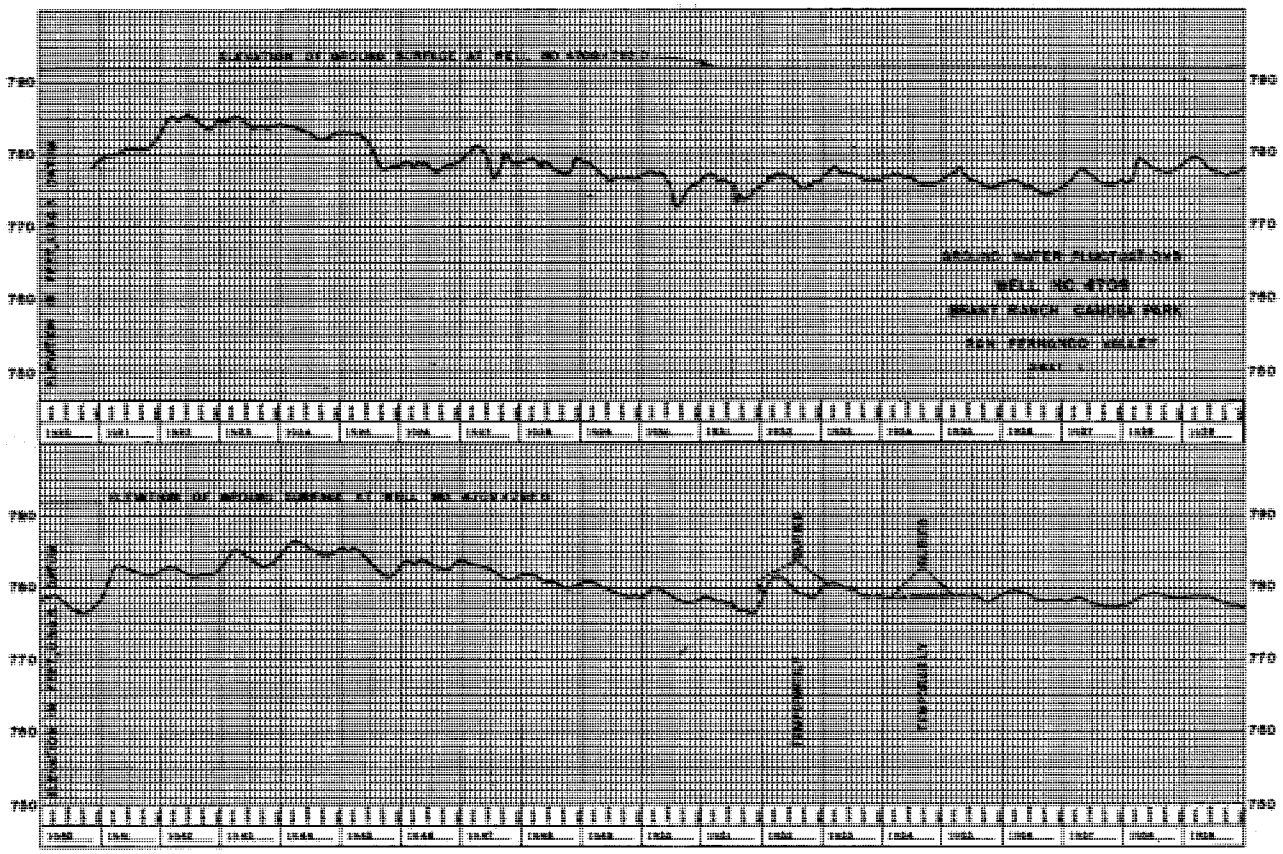
(A) BEGINNING IN 1958-59 THIS EXCLUDES CANYON WATER SPREAD AT GEN LOMOND.
(B) OPERATED BY POMONA VALLEY PROTECTIVE ASSOCIATION.
(C) WATER SPREAD. NO RECORDS KEPT.
(D) DAILY MEASUREMENTS MADE. TOTAL VOLUME NOT COMPUTED.
(E) EAST SIDE WATER COMMITTEE DISCONTINUED KEEPING RECORDS AS OF 1959-60 SEASON.

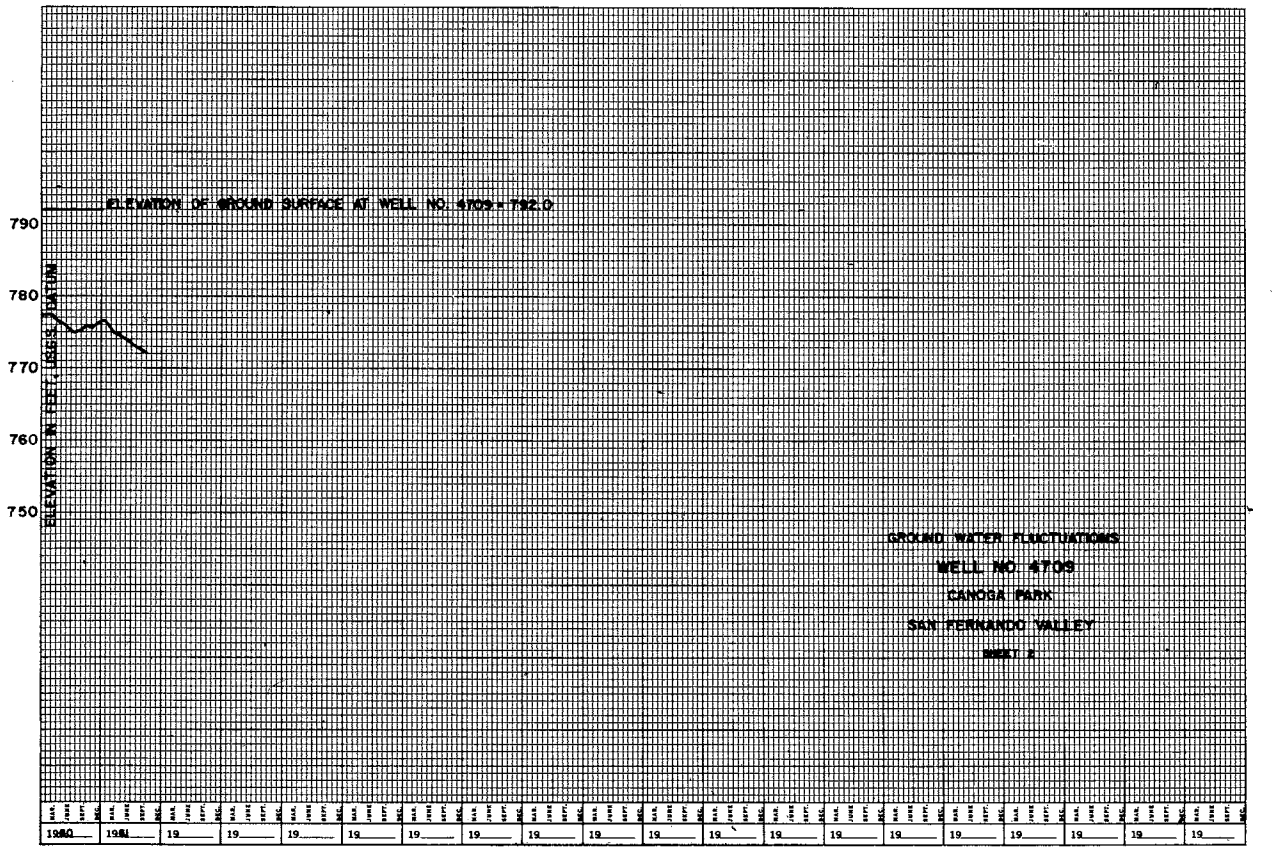
LEGEND
KEY WELLS
KEY WELLS WITH AUTOMATIC RECORDERS
KEY WELLS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT
KEY WELLS WITH AUTOMATIC RECORDERS FOR WHICH HYDROGRAPHS ARE INCLUDED IN THIS REPORT
SPECIAL WELLS WITH AUTOMATIC RECORDERS
GROUND WATER BARRIERS
SPREADING GROUNDS
CHANNEL PERCOLATING AREAS
LINED CHANNEL
APPROXIMATE LINE MARKING TRANSITION FROM FREE TO PRESSURE GROUND WATER LEVELS
GROUND WATER BASINS
1 MONK HILL
2 RAYMOND
3 MAIN SAN GABRIEL
4 UPPER SAN GABRIEL CANYON
5 LOWER SAN GABRIEL CANYON
6 GLENDORA
7 WAY HILL
8 SAN DIMAS
9 FOOTHILL
10 LIVE OAK
11 LOWER CLAREMONT HEIGHTS
12 UPPER CLAREMONT HEIGHTS
13 SAN ANTONIO CANYON
14 POMONA
15 CHINO
16 PUENTE
17 SPADRA
18 VERDUGO
19 TUJUNGA
20 SAN FERNANDO
21 SYLMAR
22 PACOIMA
23 WEST COASTAL
24 CENTRAL COASTAL
24A MONTEBELLO FOREBAY
25 HOLLYWOOD
25A LOS ANGELES FOREBAY
26 SANTA CLARA
27 VALYERMO
28 PALLETT CREEK
29 AMARGOSA
30 ROCK CREEK
31 BUTTES
32 LANCASTER
33 NEENACH
34 LA HABRA
35 GLENOAKS
SPREADING GROUNDS
DISTRICT OWNED & OPERATED
1 LOPEZ
2 PACOIMA
3 HANSEN
4 BRANFORD SPREADING BASIN
5 ARROYO SECO
6 EATON WASH
7 SANTA ANITA
8 SAWPIT WASH
9 BIG DALTON CANYON
10 EATON SPREADING BASIN
11 BUENA VISTA SPREADING BASIN
12 SANTA FE RESERVOIR
13 IRWINDALE SPREADING BASIN
14 BEN LOMOND
15 SAN GABRIEL COASTAL BASIN
16 RIO HONDO COASTAL BASIN
17 RIO HONDO COASTAL BASIN STREAMBED DEVELOPMENT
18 DOMINGUEZ GAP
19 WEST COAST BASIN BARRIER PROJECT (RECHARGE WELLS)
NON-DISTRICT
1 SIERRA MADRE
2 SAN GABRIEL RIVER WATER COMMITTEE
a. WEST SIDE CANYON BASIN
b. EAST SIDE CANYON BASIN
c. WASH CHANNELS FED BY AZUSA AND COVINA CANALS
3 LITTLE DALTON
4 THOMPSON CREEK
5 SAN ANTONIO
6 L.A. CITY TUJUNGA
7 L.A. CITY CRYSTAL SPRING INFILTRATION AREA
8 CITY OF POMONA
9 KINGS CANYON
PERCOLATING AREAS RESERVOIRS
A LOPEZ
B HANSEN
C DEVILS GATE
D EATON
E SAWPIT DEBRIS BASIN
F PUDDINGSTONE DIVERSION
G SANTA FE
H THOMPSON CREEK
J SAN ANTONIO
K WHITTIER NARROWS
STREAM BEDS
2 PACOIMA WASH (WOODMAN AVE TO PARTHENIA ST.)
3 SAN GABRIEL (WHITTIER BLVD TO FLORENCE AVE.)
PACIFIC OCEAN
SAN PEDRO BAY
SCALE
MILES
REVISIONS
MARK DATE DESCRIPTION
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MAP SHOWING LOCATION OF
KEY WELLS
GROUND WATER BASINS
AND
SPREADING GROUNDS
COMPILED R.L.S. W.D.H.
DRAWN M.K.I.
PRESENTED C.U.R.
CHECKED C.O.G.
SUBMITTED A.E. Brunington DIV. ENGR.-WATER CONS.
RECOMMENDED Fulton D. Lowrey ASST. CHIEF ENGINEER
APPROVED CHIEF ENGINEER
SCALE AS SHOWN
DATE MAY, 1960
NO. 2-H145
SHEET 1 OF 1

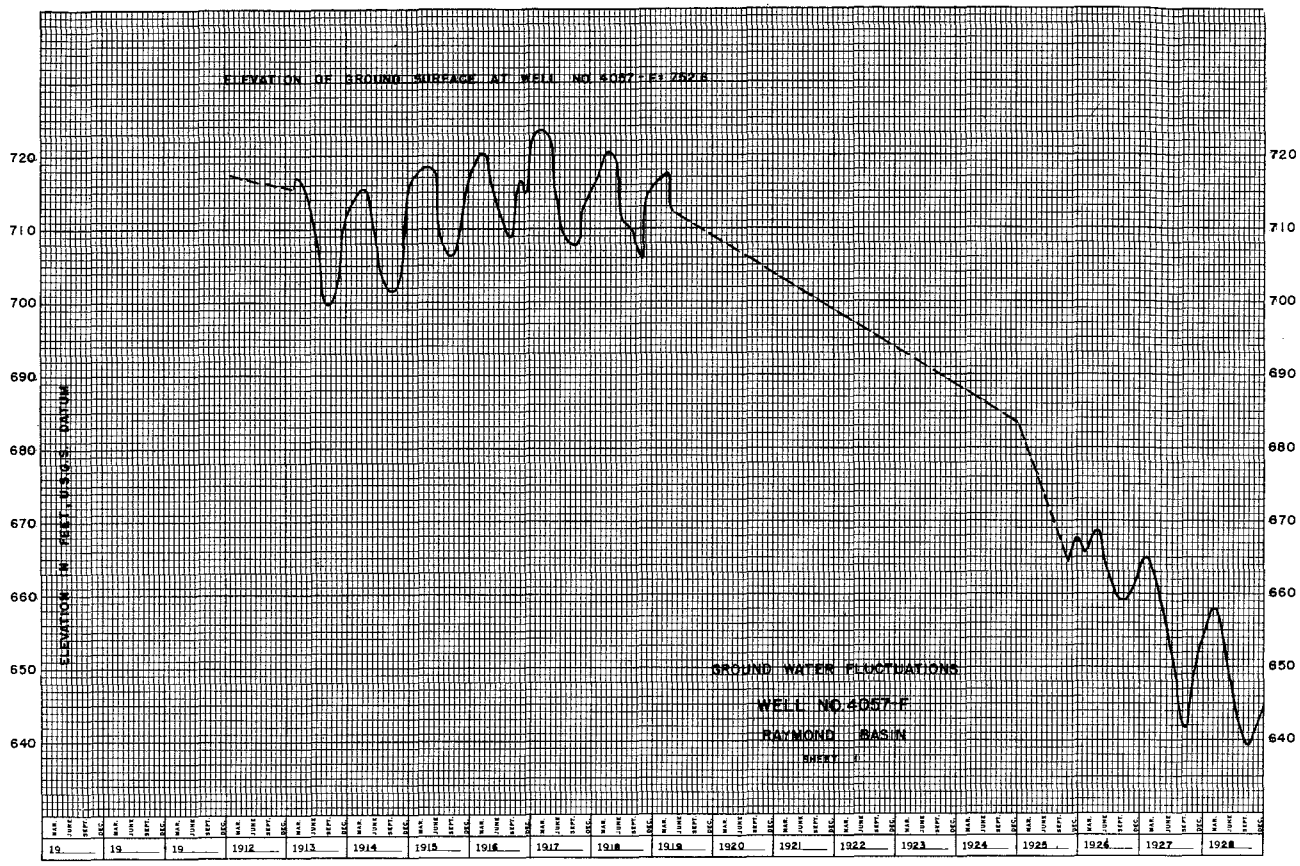
MAP V

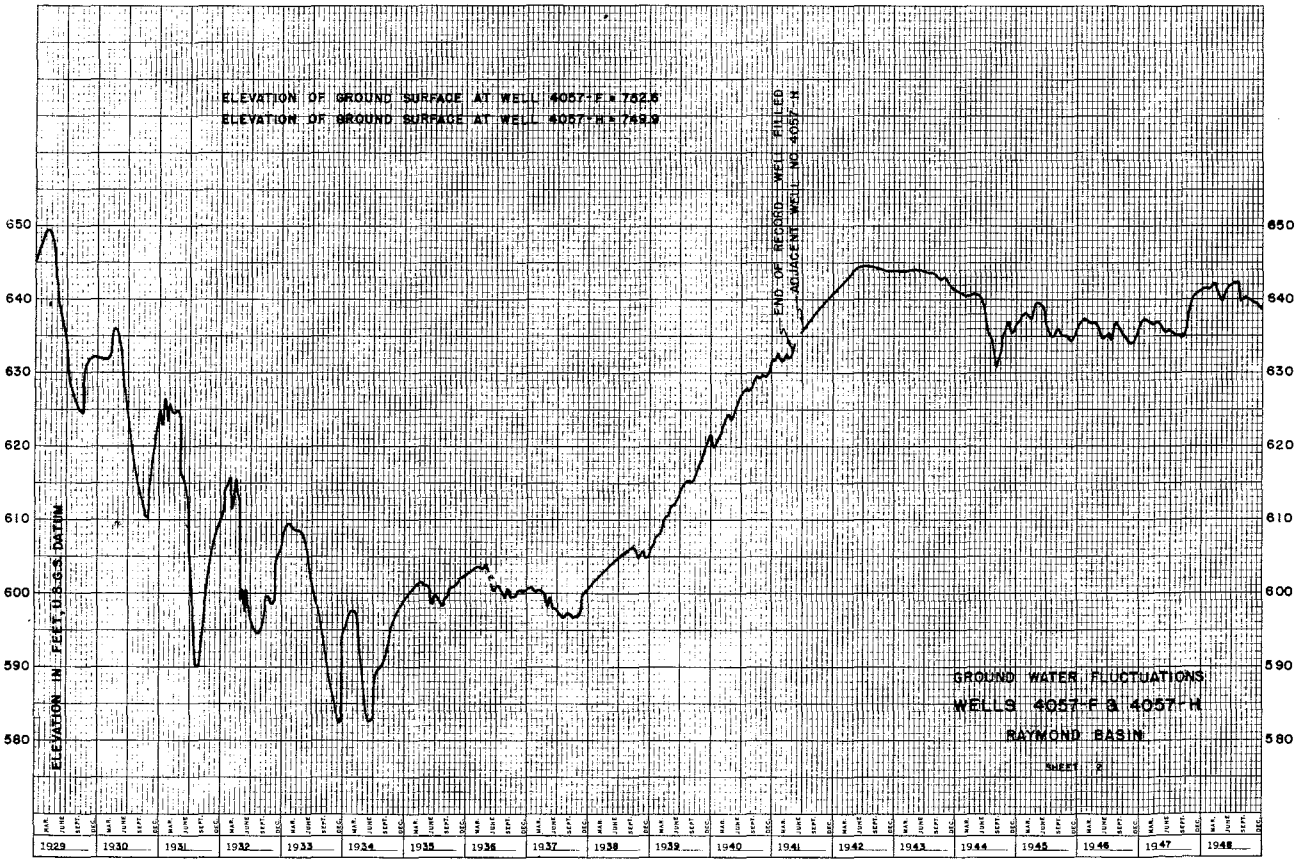

ELEVATION OF GROUND SURFACE AT WELL NO. 3854
ELEVATION OF GROUND SURFACE AT WELL NO. 3855
ELEVATION IN FEET, U.S.G.S. DATUM
540
530
520
510
500
3855
3854
WELL ABANDONED
GROUND WATER FLUCTUATIONS
WELL NOS. 3855 & 3854
BURBANK
SAN FERNANDO
VALLEY
19.22 19.23 19.24 19.25 19.26 19.27 19.28 19.29 19.30 19.31 19.32 19.33 19.34 19.35 19.36 19.37 19.38 19.39 19.40 19.41

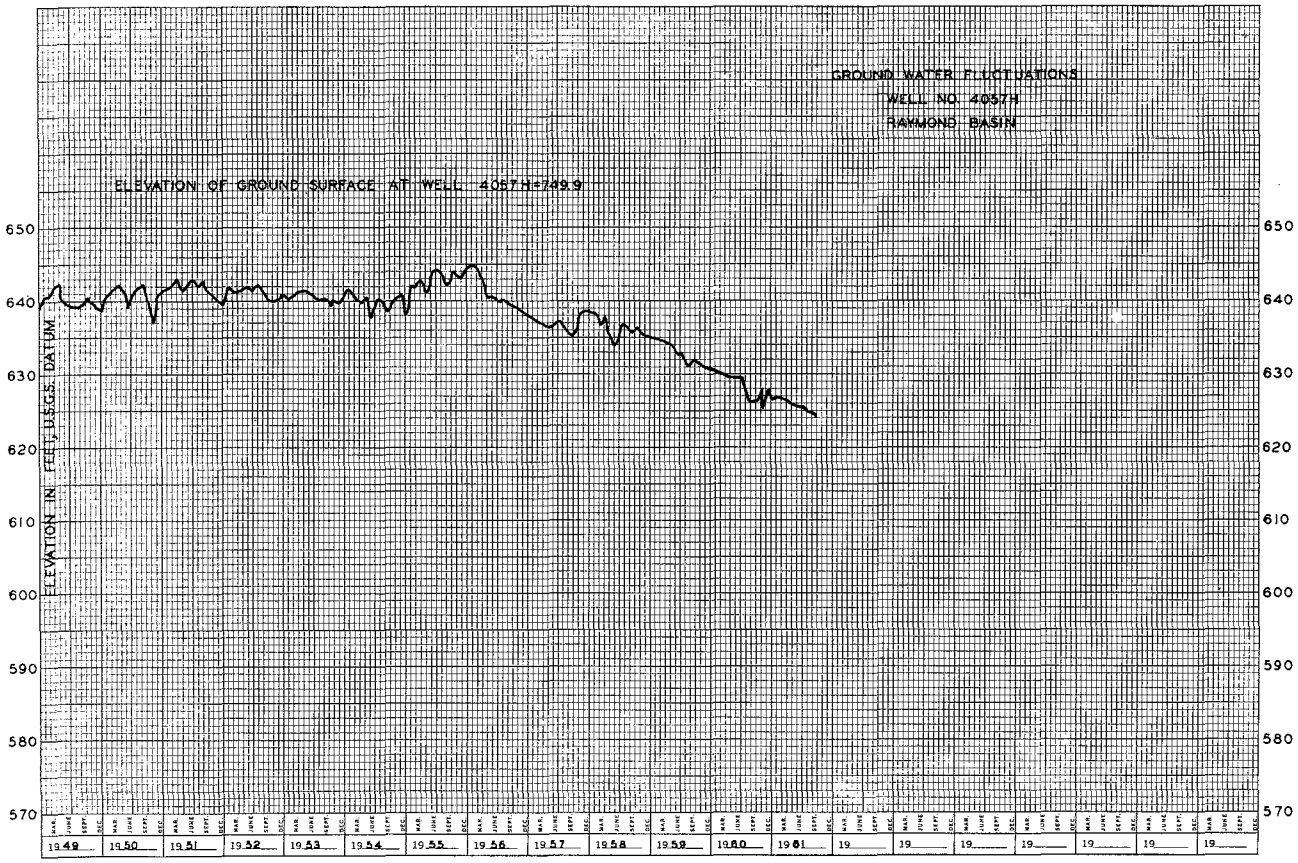

ELEVATION OF GROUND SURFACE AT WELL NO. 3872 B & 3872 D
ELEVATION OF GROUND SURFACE AT WELLS 3855 & 3872 D
ELEVATION IN FEET, U.S.G.S. DATUM
550
540
530
520
510
500
490
480
470
460
450
440
3855
3872 B
DRY
DRY
3872 D
WELL DRY AT EL EV
451.7 ELEVATIONS
EST. FOR PERIOD
GROUND WATER FLUCTUATIONS
WELL NOS. 3855 3872 B & 3872 D
BURBANK
SAN FERNANDO VALLEY
19.42 19.43 19.44 19.45 19.46 19.47 19.48 19.49 19.50 19.51 19.52 19.53 19.54 19.55 19.56 19.57 19.58 19.59 19.60 19.61

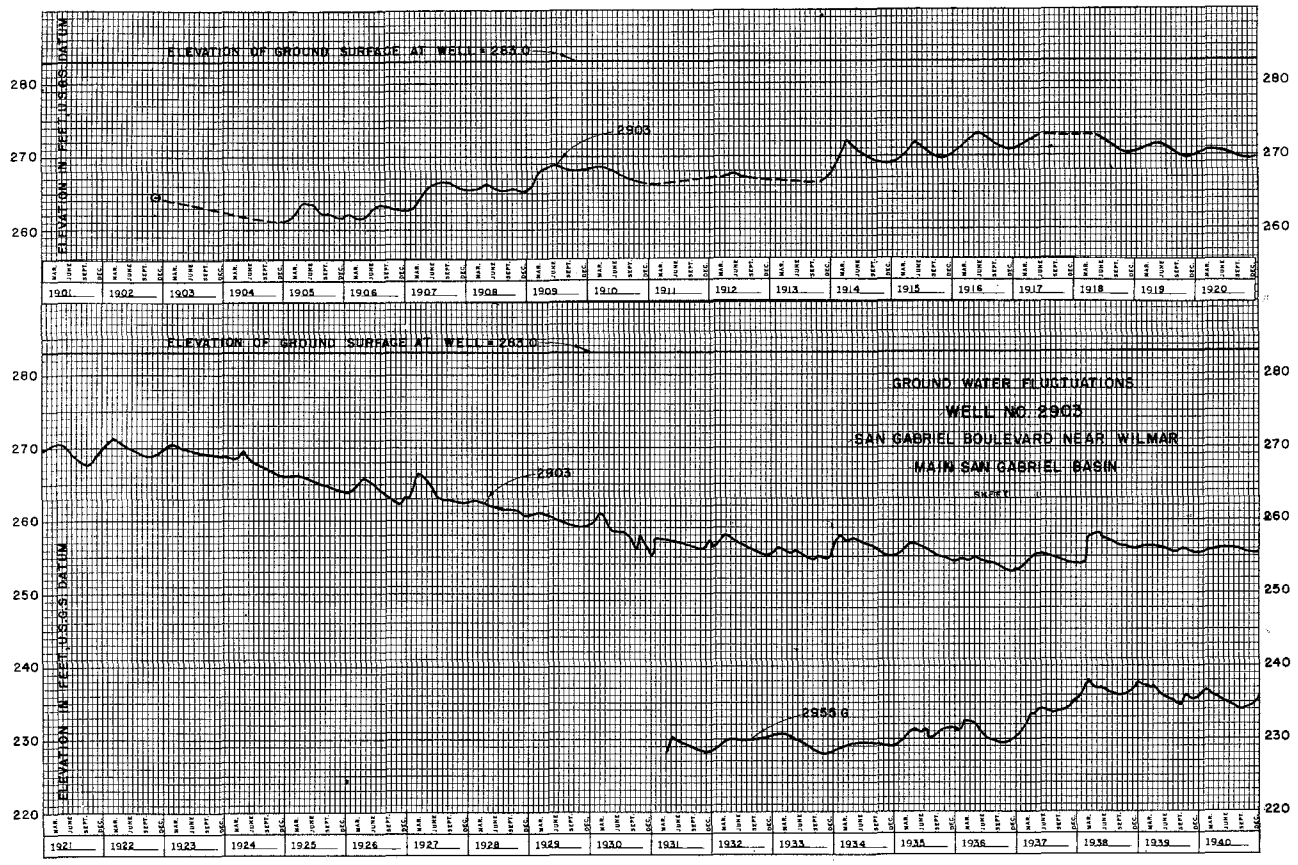

GROUND WATER FLUCTUATIONS
WELL NO. 4708
BRENT KNOX CANOGA PARK
SAN FERNANDO VALLEY
SHEET 1
ELEVATION IN FEET, USGS DATUM
TEMPERATURE
PRECIPITATION

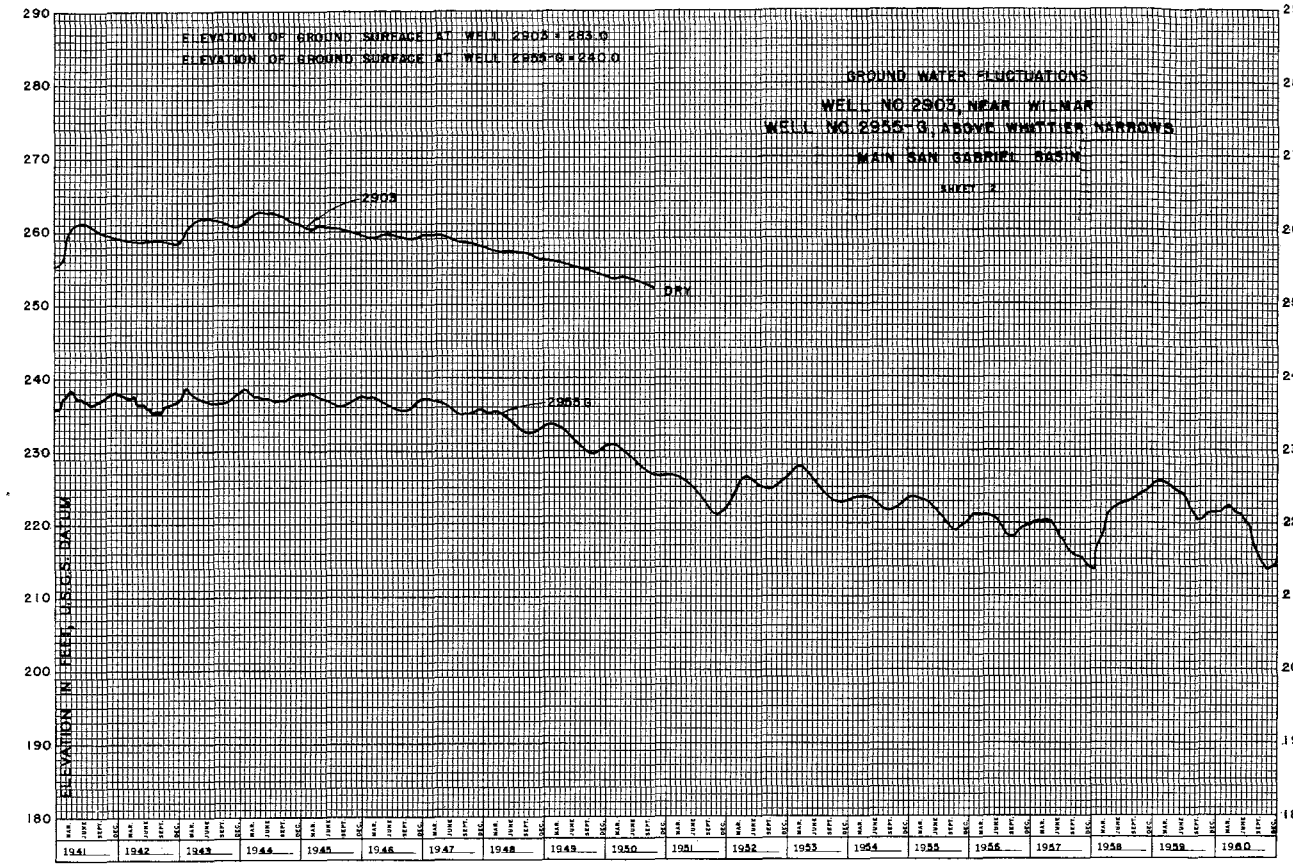

ELEVATION OF GROUND SURFACE AT WELL NO. 4709 = 792.0
ELEVATION IN FEET, USGS DATUM
GROUND WATER FLUCTUATIONS
WELL NO. 4709
CANOGA PARK
SAN FERNANDO VALLEY
SHEET 2

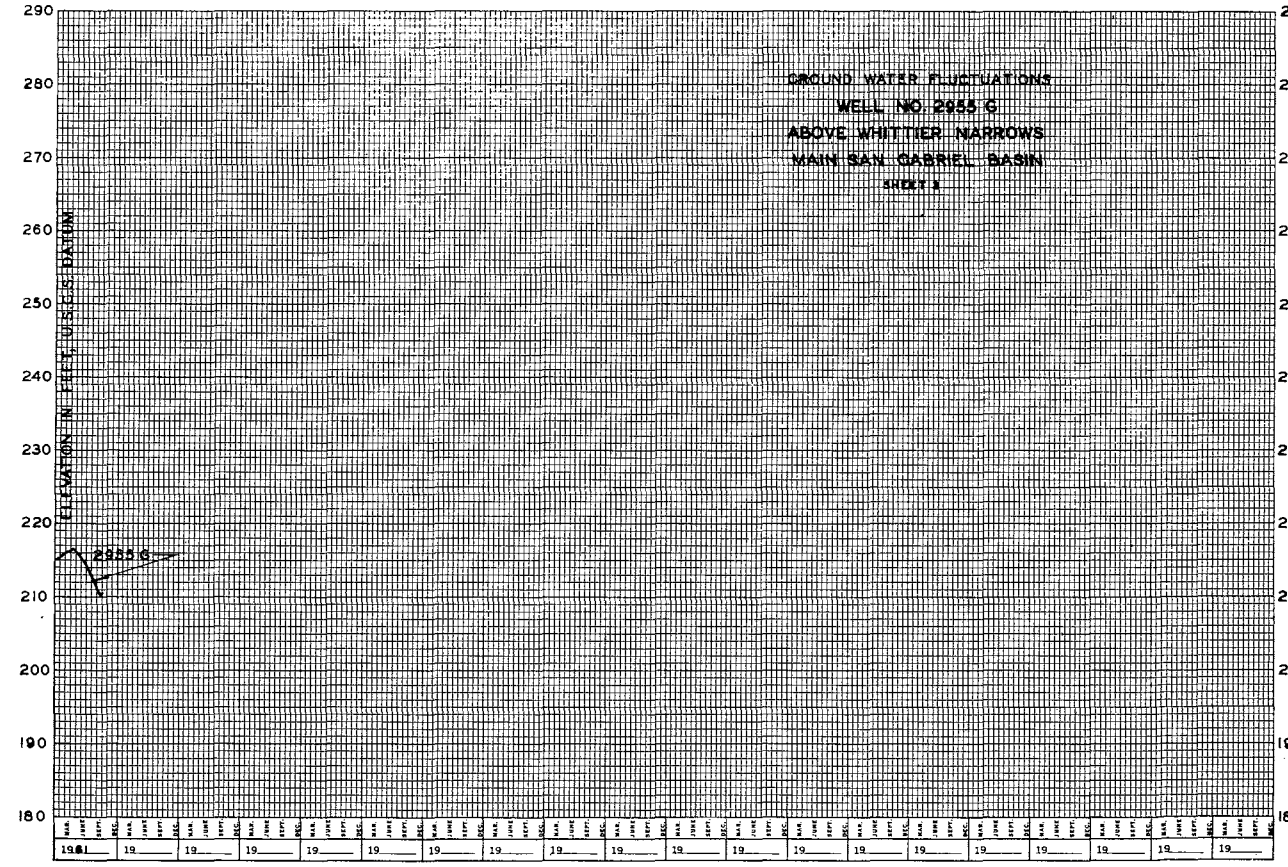

ELEVATION OF GROUND SURFACE AT WELL NO 4057-F: 782.8
ELEVATION IN FEET, U.S.G.S. DATUM
720
710
700
690
680
670
660
650
640
GROUND WATER FLUCTUATIONS
WELL NO 4057-F
RAYMOND BASIN
SHEET 1
MAR. JUNE SEPT. DEC.
19 19 19 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928

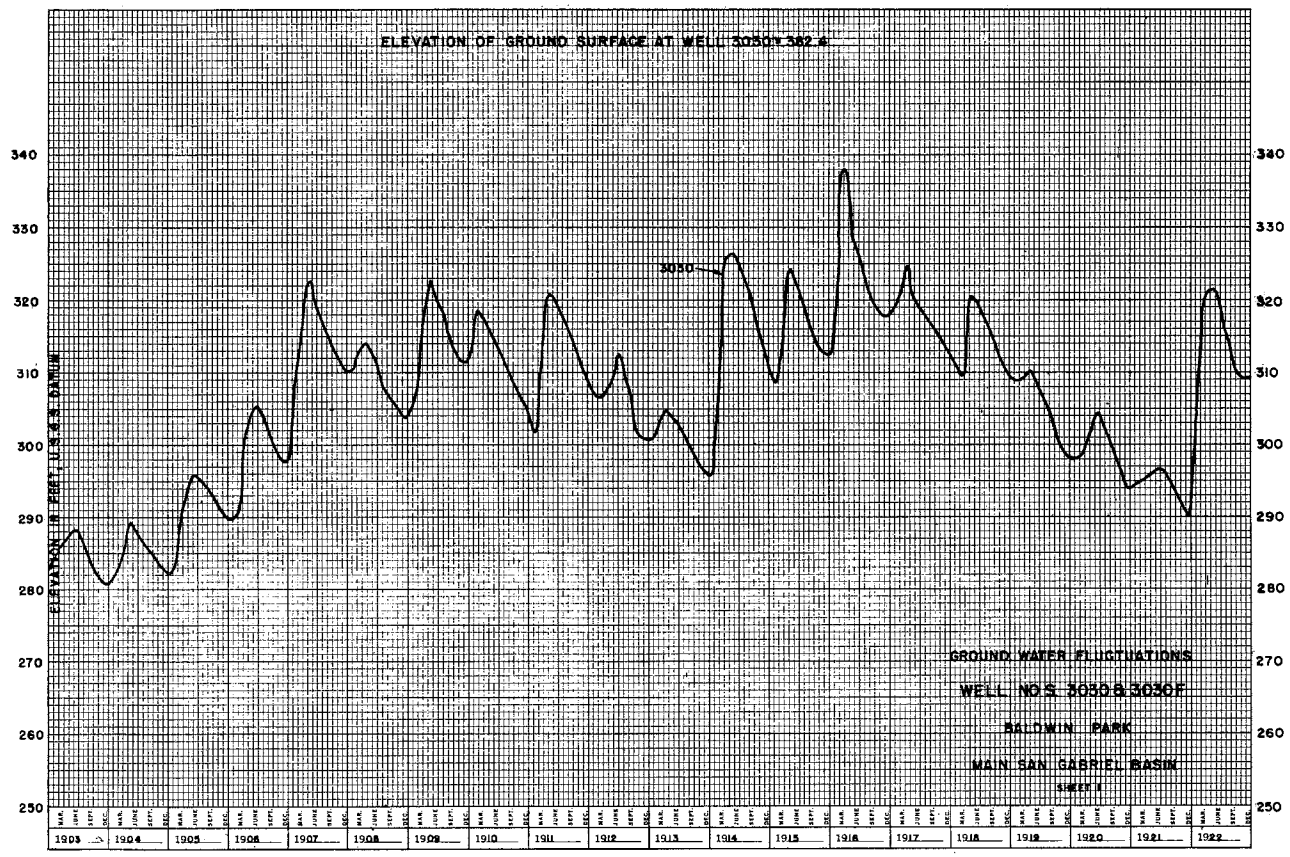

ELEVATION OF GROUND SURFACE AT WELL 4057-F = 782.8
ELEVATION OF GROUND SURFACE AT WELL 4057-H = 749.9
END OF RECORD WELL FILLED - ADJACENT WELL NO 4057-H
ELEVATION IN FEET, U.S.G.S. DATUM
650
640
630
620
610
600
590
580
GROUND WATER FLUCTUATIONS
WELLS 4057-F & 4057-H
RAYMOND BASIN
SHEET 2
MAR. JUNE SEPT. DEC.
1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948

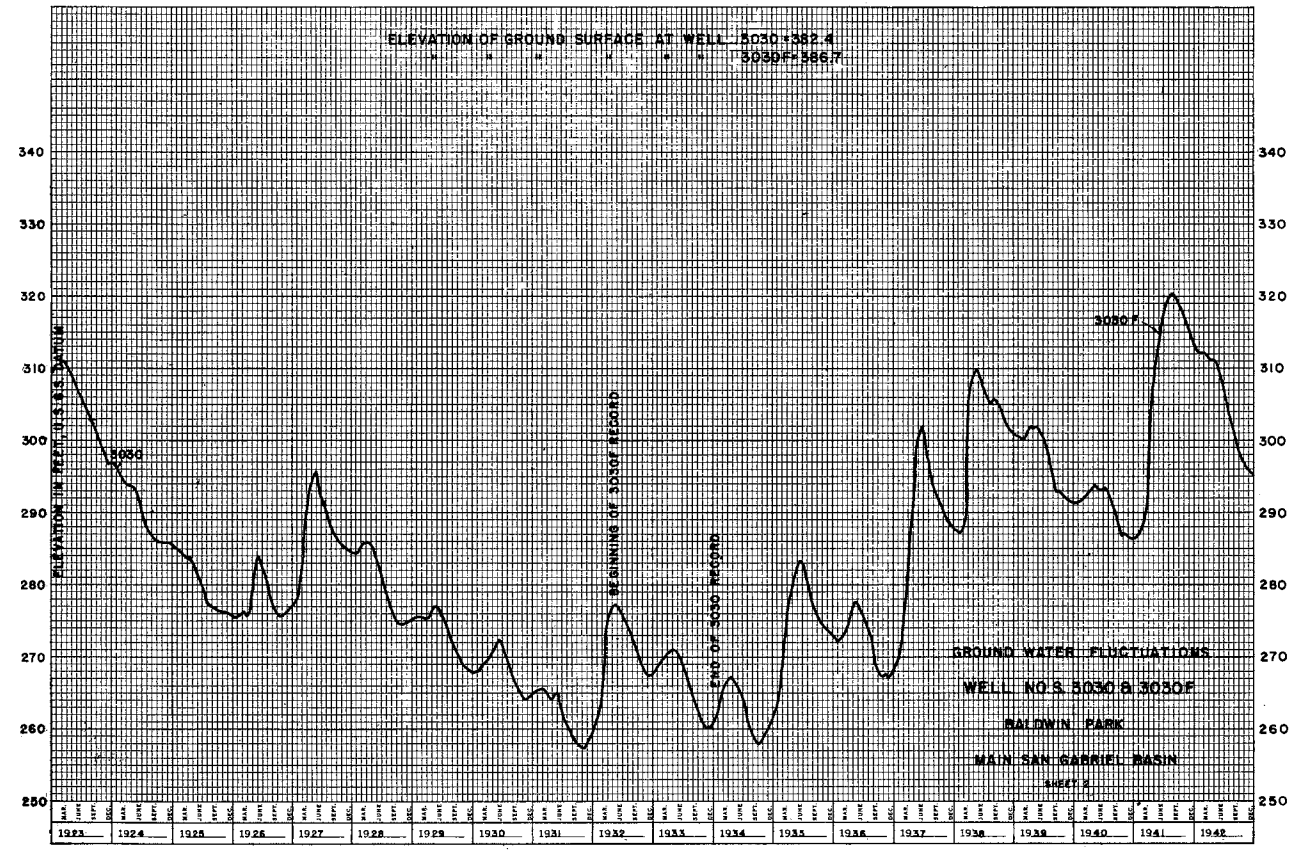

GROUND WATER FLUCTUATIONS
WELL NO. 4057H
RAYMOND BASIN
ELEVATION OF GROUND SURFACE AT WELL 4057H=749.9
ELEVATION IN FEET, U.S.G.S. DATUM
650
640
630
620
610
600
590
580
570
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961

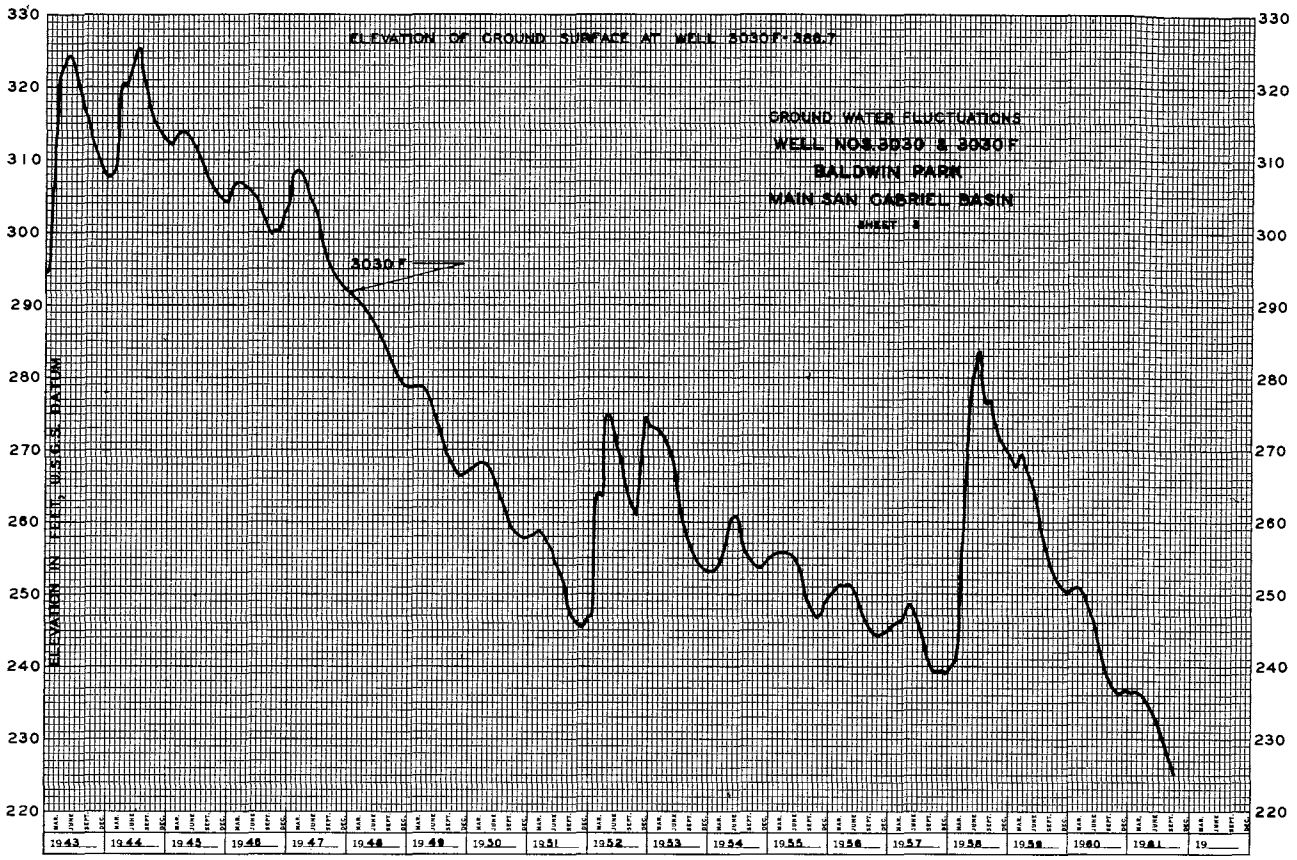

ELEVATION OF GROUND SURFACE AT WELL 2903=283.0
2903
G
ELEVATION IN FEET, U.S.G.S. DATUM
280
270
260
1901
1902
1903
1904
1905
1906
1907
1908
1909
1910
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
ELEVATION OF GROUND SURFACE AT WELL 2903=283.0
GROUND WATER FLUCTUATIONS
WELL NO. 2903
SAN GABRIEL BOULEVARD NEAR WILMAR
MAIN SAN GABRIEL BASIN
2903
2955.6
ELEVATION IN FEET, U.S.G.S. DATUM
280
270
260
250
240
230
220
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940

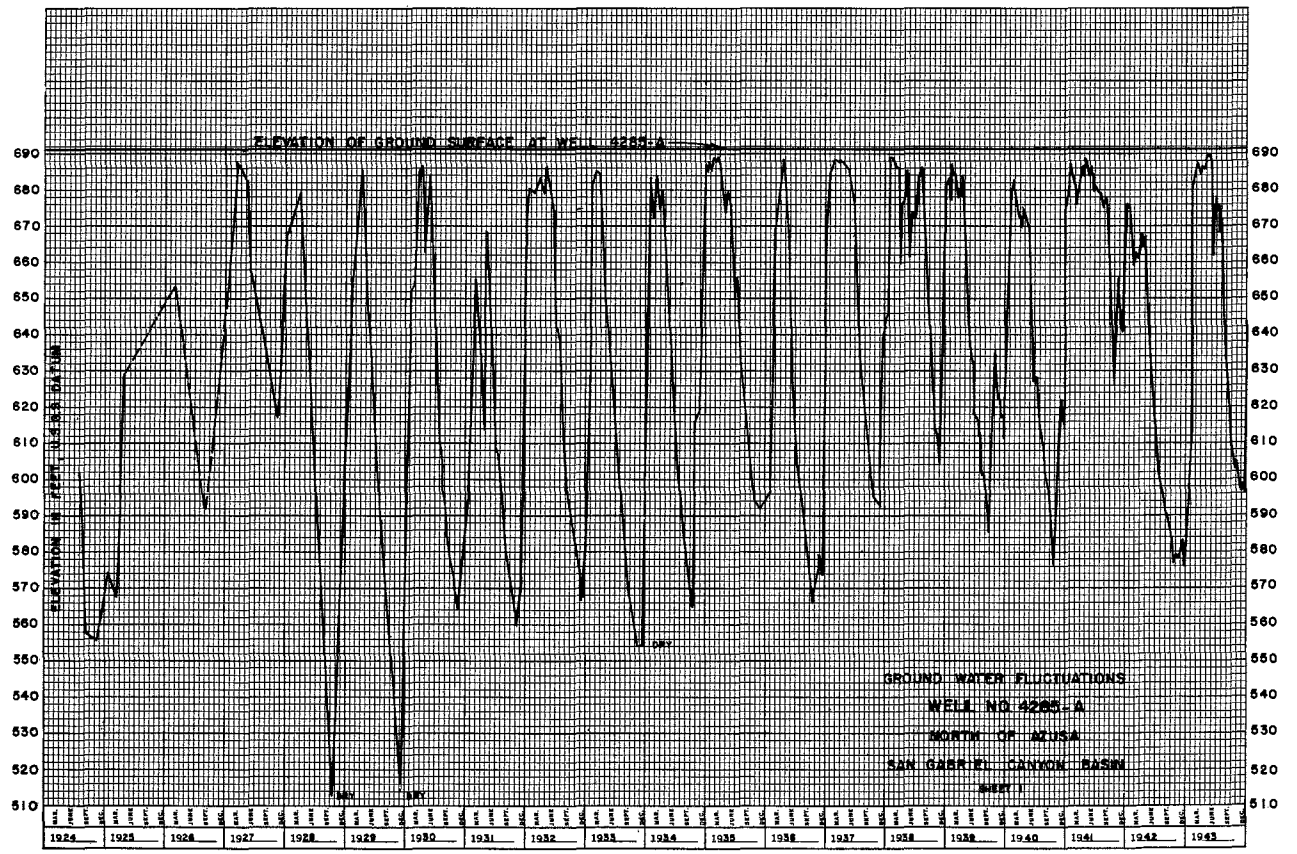

ELEVATION OF GROUND SURFACE AT WELL 2903 = 283.0
ELEVATION OF GROUND SURFACE AT WELL 2955-G = 240.0
GROUND WATER FLUCTUATIONS
WELL NO. 2903, NEAR WILMAR
WELL NO. 2955-G, ABOVE WHITTIER NARROWS
MAIN SAN GABRIEL BASIN
SHEET 2
2903
DRY
2955 G
ELEVATION IN FEET, U.S.G.S. DATUM
290
280
270
260
250
240
230
220
210
200
190
180
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960

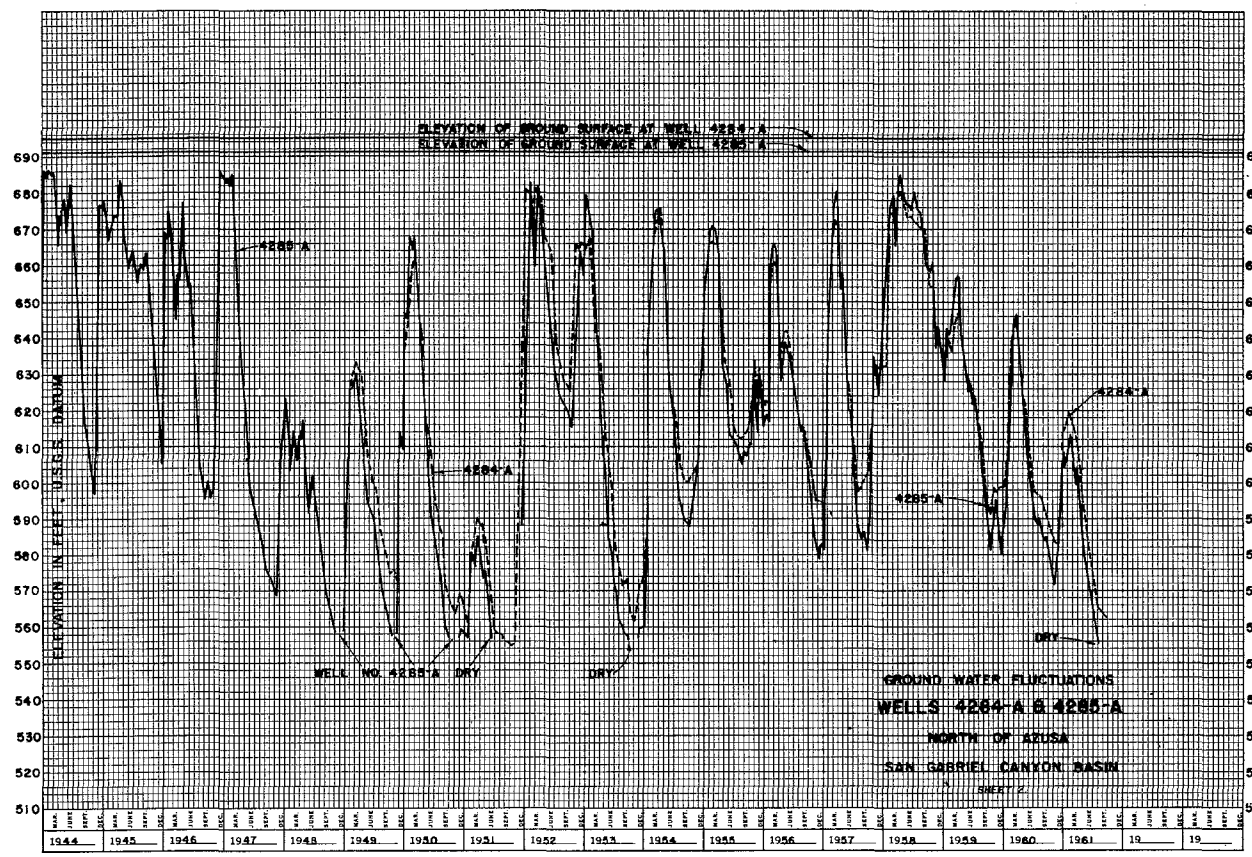

GROUND WATER FLUCTUATIONS
WELL NO. 2955 G
ABOVE WHITTIER NARROWS
MAIN SAN GABRIEL BASIN
SHEET 3
2955 G
ELEVATION IN FEET, U.S.G.S. DATUM
290
280
270
260
250
240
230
220
210
200
190
180
1941
19

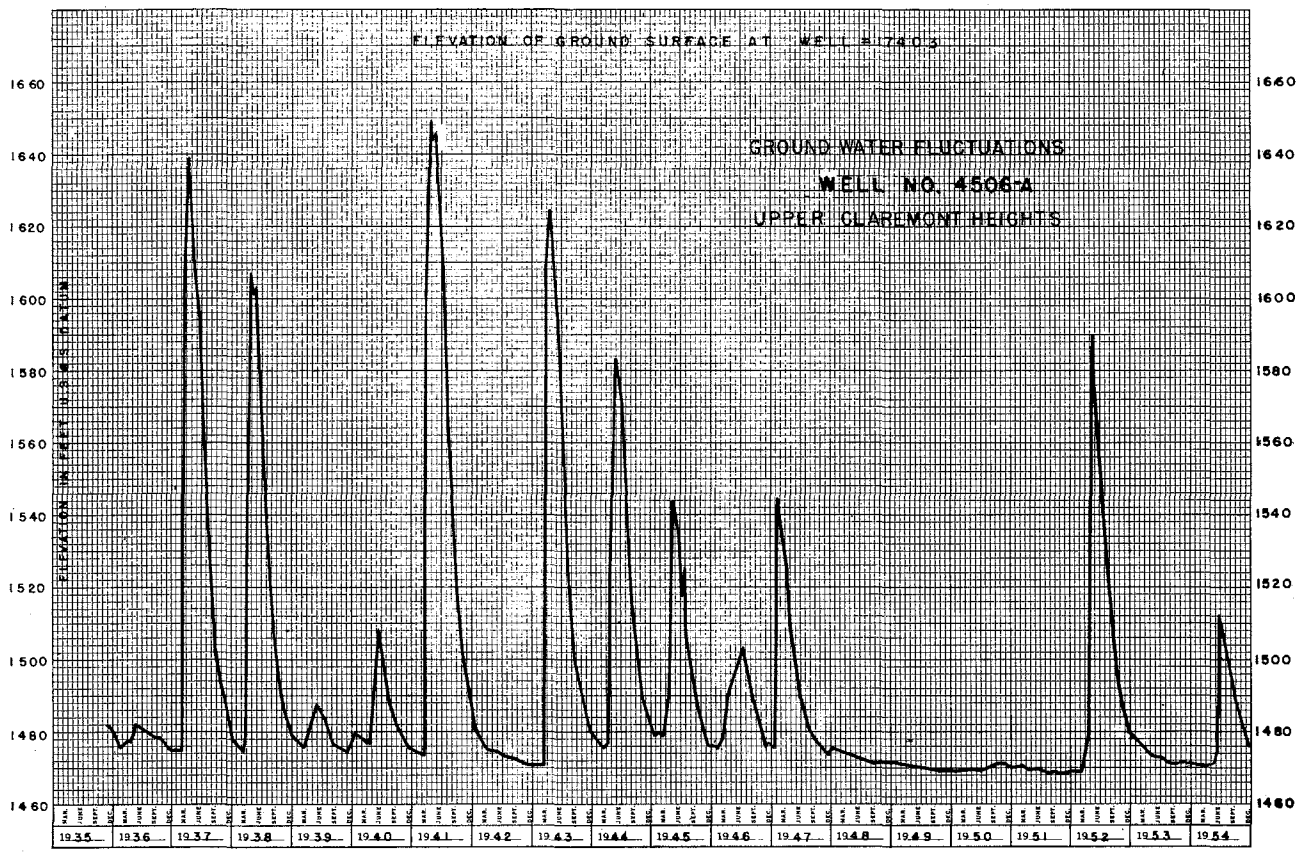

ELEVATION OF GROUND SURFACE AT WELL 3030 = 382.4'
ELEVATION IN FEET, U.S.C.&G.S. DATUM
3030
GROUND WATER FLUCTUATIONS
WELL NO'S. 3030 & 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
SHEET 1
340
330
320
310
300
290
280
270
260
250
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942

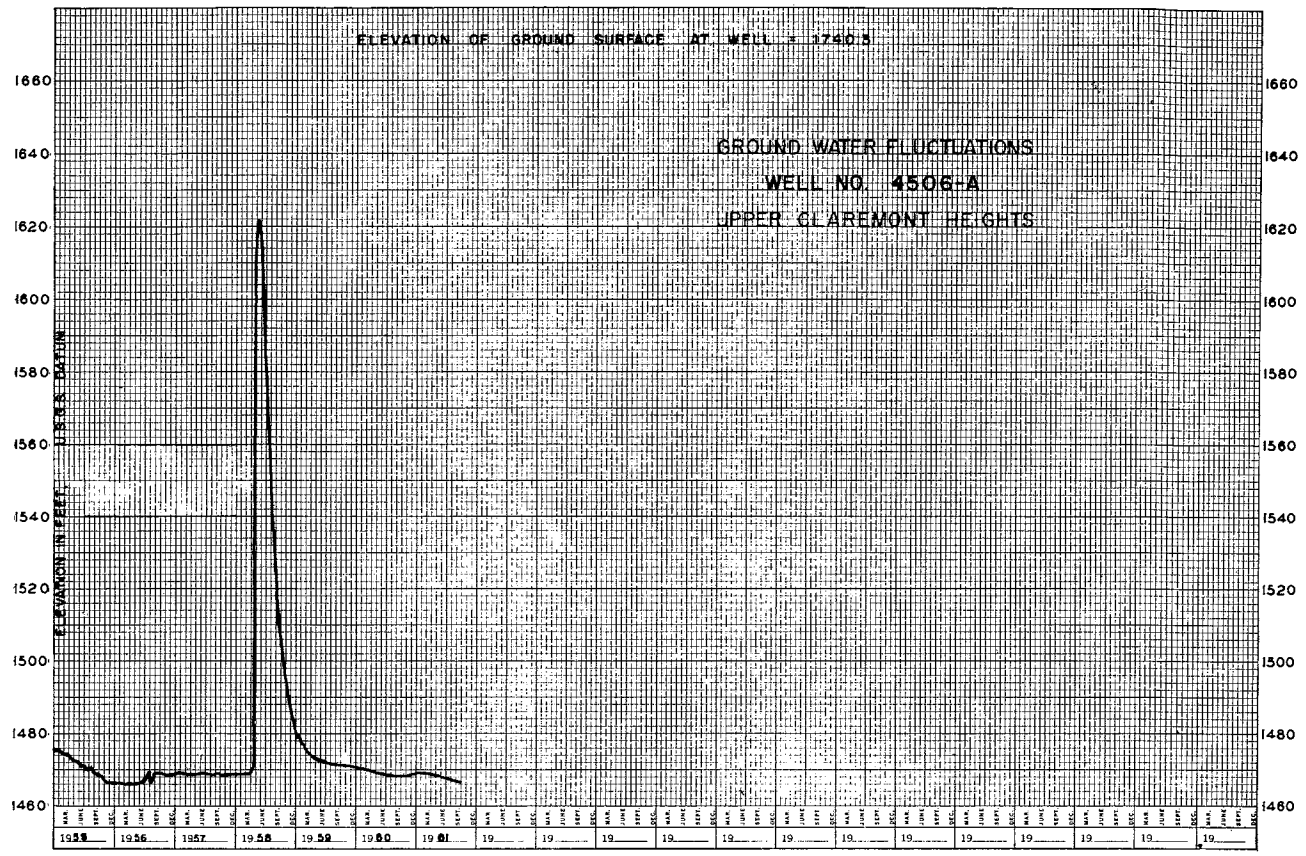

ELEVATION OF GROUND SURFACE AT WELL 3030 = 382.4'
" " " " " " 3030F = 586.7'
ELEVATION IN FEET, U.S.C.&G.S. DATUM
3030
BEGINNING OF 3030F RECORD
END OF 3030 RECORD
3030F
GROUND WATER FLUCTUATIONS
WELL NO'S. 3030 & 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
SHEET 2
340
330
320
310
300
290
280
270
260
250
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942

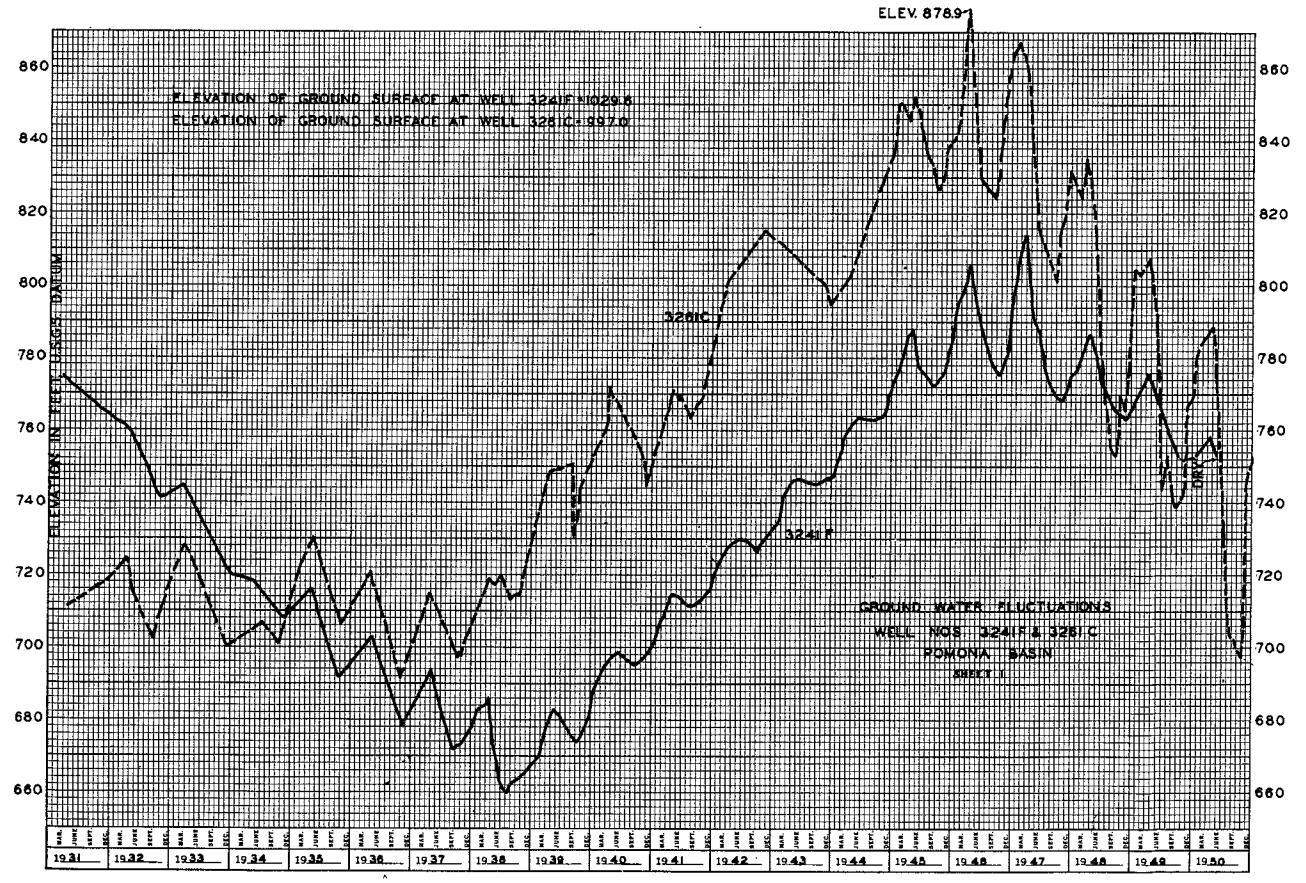

ELEVATION OF GROUND SURFACE AT WELL 3030F-388.7
GROUND WATER FLUCTUATIONS
WELL NOS. 3030 & 3030F
BALDWIN PARK
MAIN SAN GABRIEL BASIN
SHEET 2
3030F
ELEVATION IN FEET, U.S.C.S. DATUM
330
320
310
300
290
280
270
260
250
240
230
220
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961

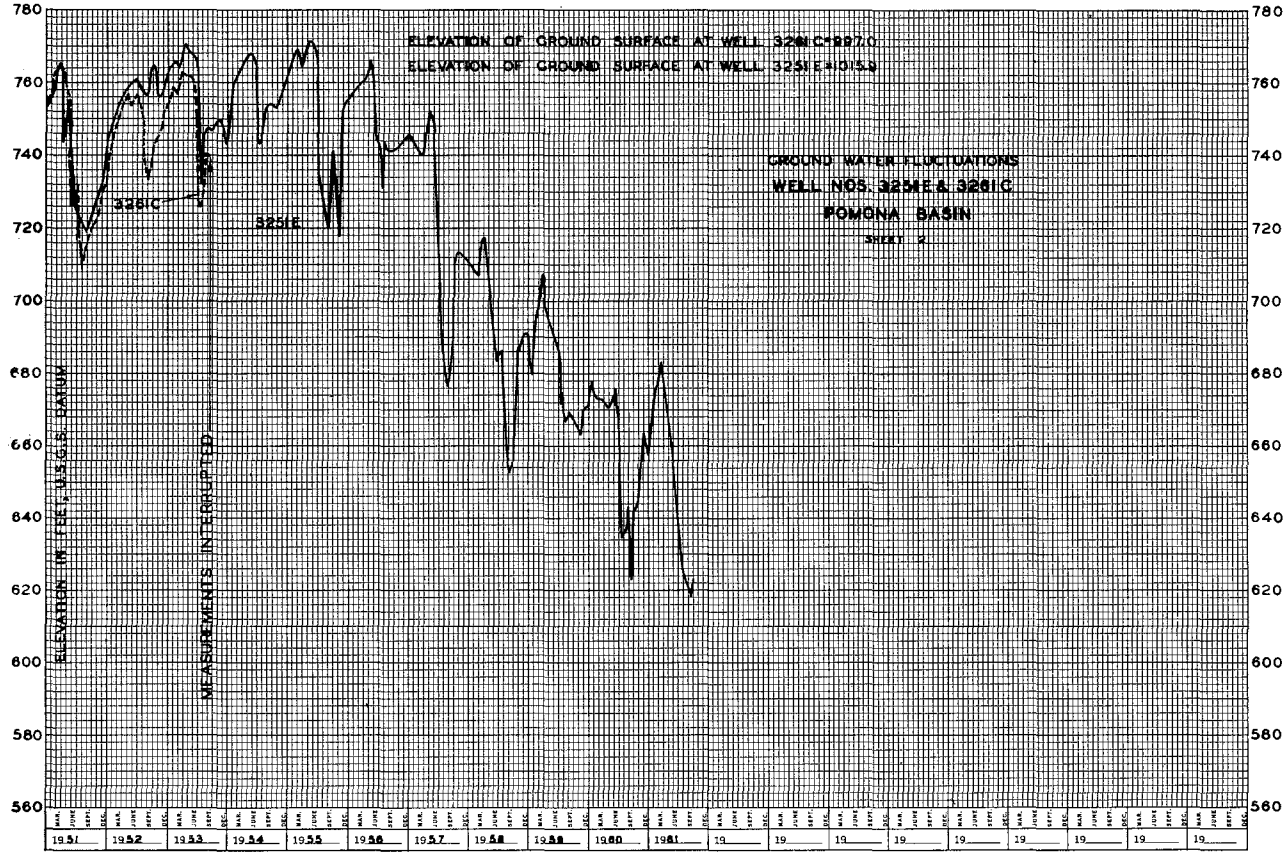

ELEVATION OF GROUND SURFACE AT WELL 4285-A
GROUND WATER FLUCTUATIONS
WELL NO. 4285-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN
SHEET 1
ELEVATION IN FEET, U.S.C.S. DATUM
690
680
670
660
650
640
630
620
610
600
590
580
570
560
550
540
530
520
510
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943

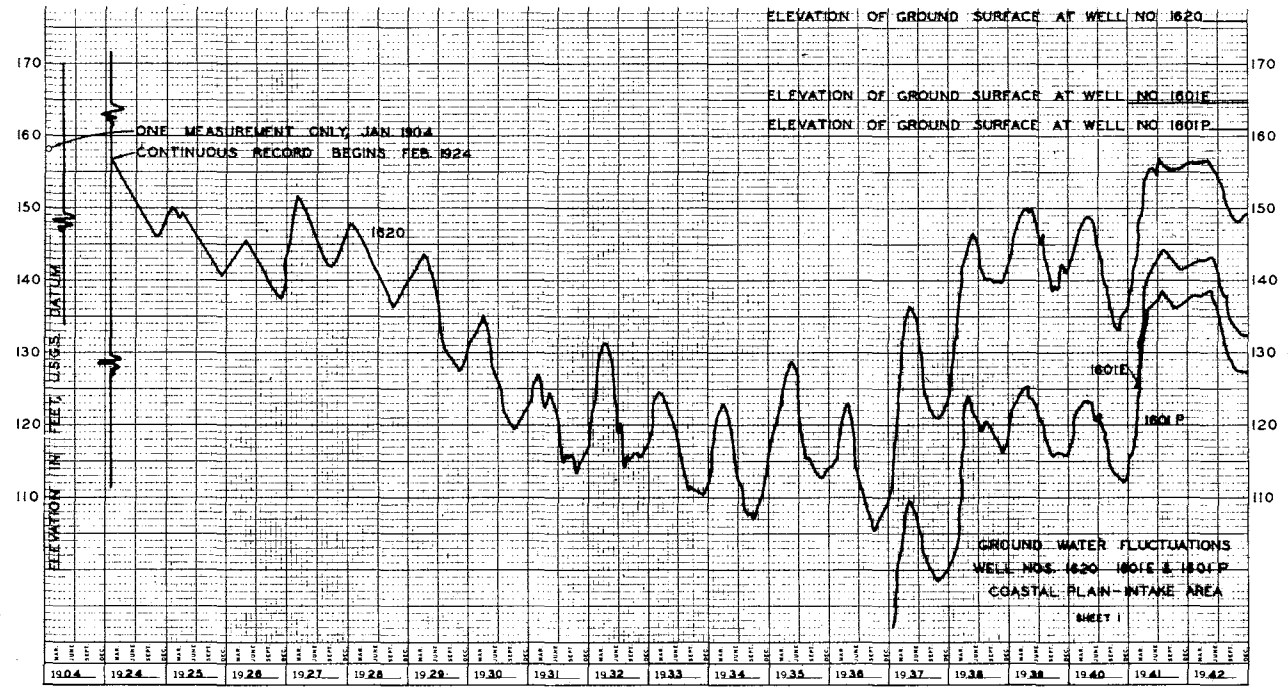

ELEVATION OF GROUND SURFACE AT WELL 4284-A
ELEVATION OF GROUND SURFACE AT WELL 4285-A
ELEVATION IN FEET, U.S.G.S. DATUM
4286-A
4284-A
4285-A
4284-A
WELL NO. 4285-A DRY
DRY
DRY
GROUND WATER FLUCTUATIONS
WELLS 4284-A & 4285-A
NORTH OF AZUSA
SAN GABRIEL CANYON BASIN
SHEET 2
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961

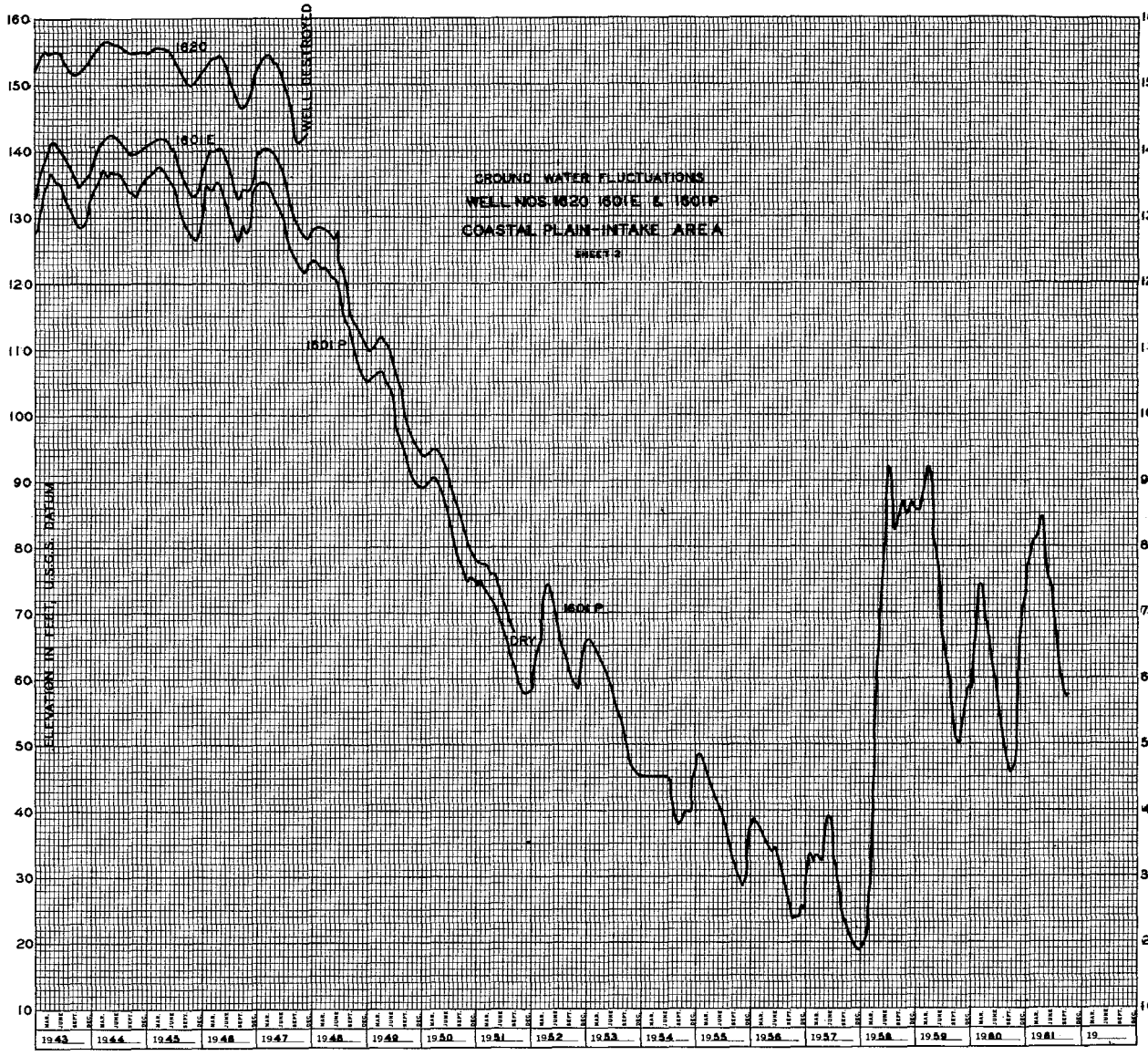

ELEVATION OF GROUND SURFACE AT WELL 4506-A
ELEVATION IN FEET U.S.G.S. DATUM
GROUND WATER FLUCTUATIONS
WELL NO. 4506-A
UPPER CLAREMONT HEIGHTS
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954

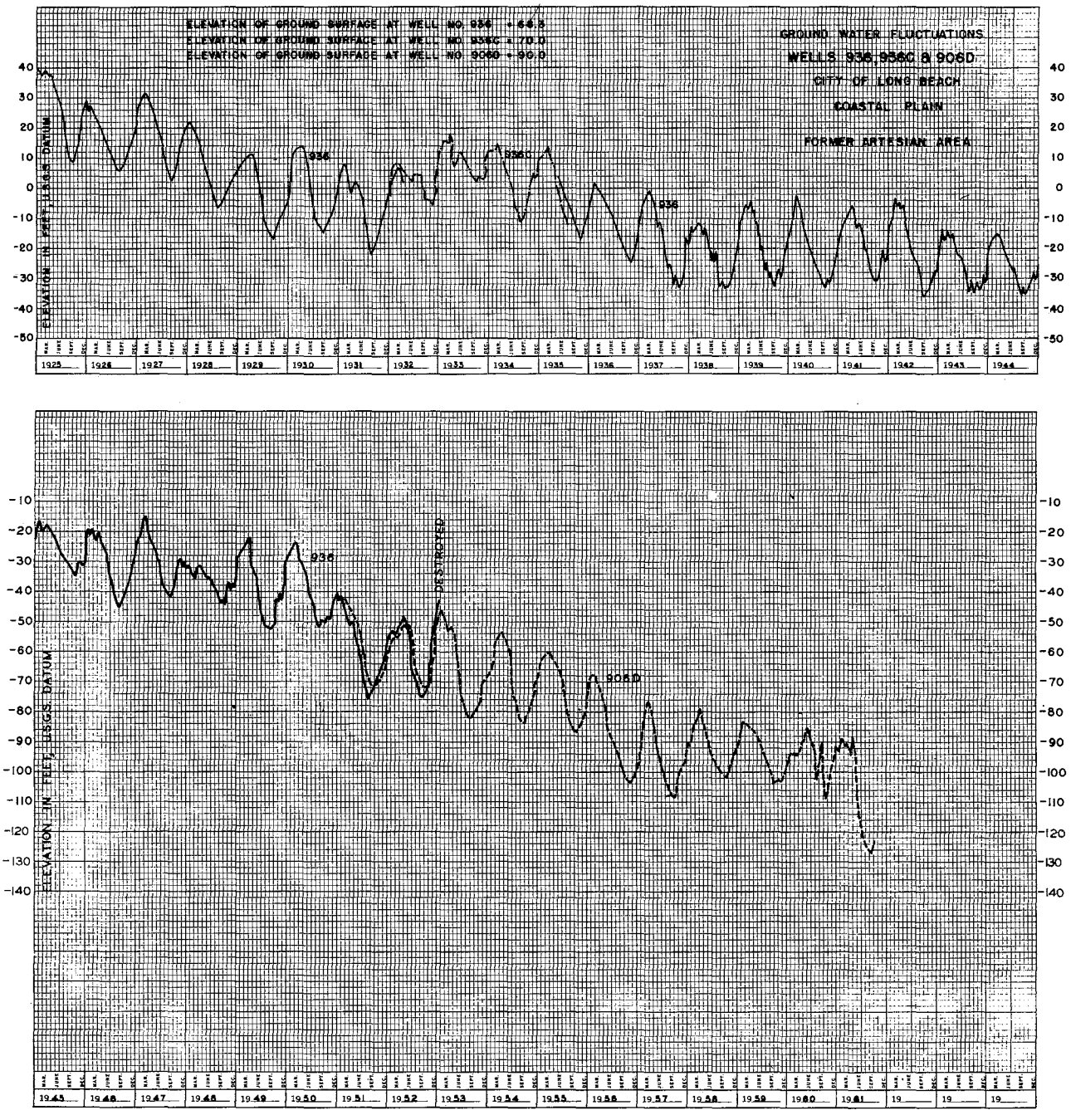

ELEVATION OF GROUND SURFACE AT WELL = 1740.3
GROUND WATER FLUCTUATIONS
WELL NO. 4506-A
UPPER CLAREMONT HEIGHTS
ELEVATION IN FEET U.S.C.&G.S. DATUM
1660
1640
1620
1600
1580
1560
1540
1520
1500
1480
1460
1955
1956
1957
1958
1959
1960
1961

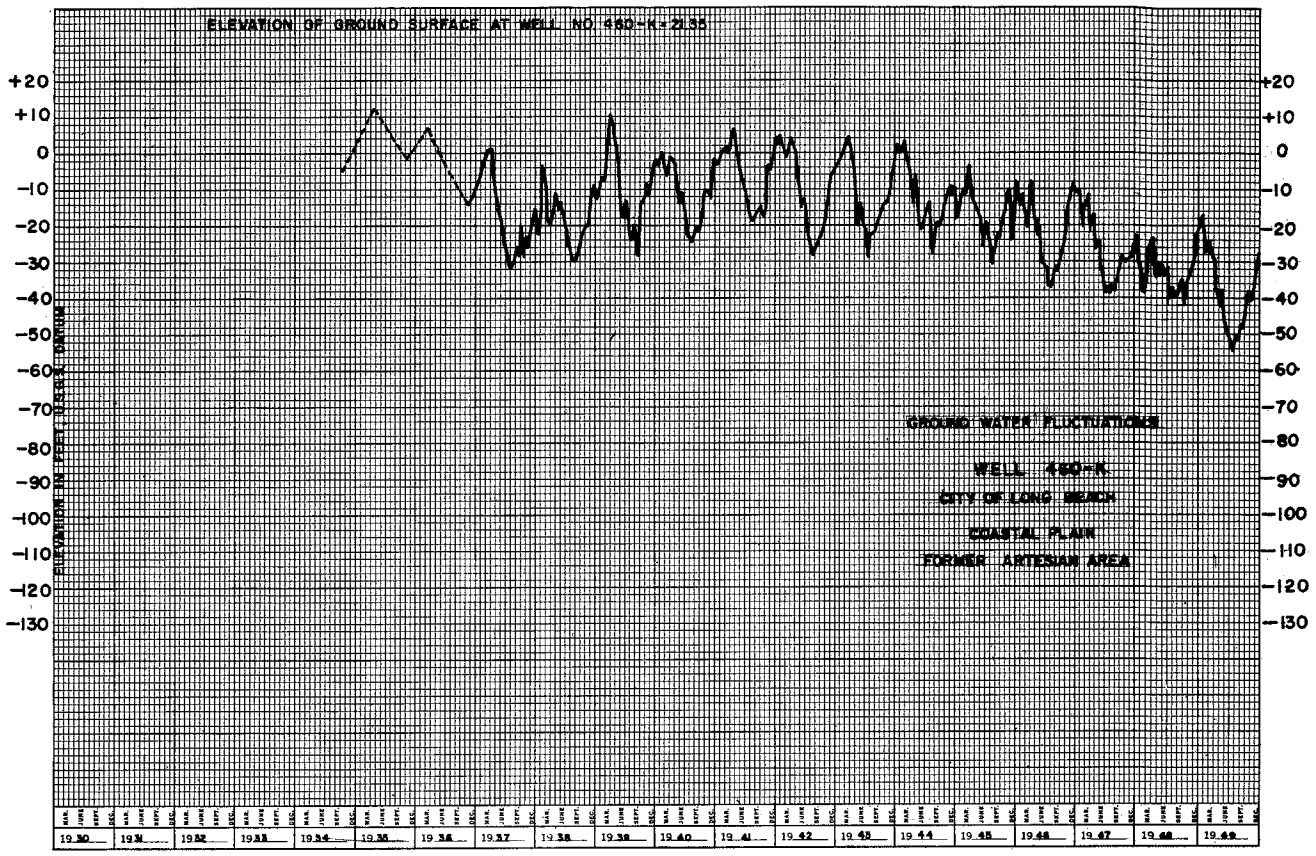

ELEV. 878.9
ELEVATION OF GROUND SURFACE AT WELL 3241F=1029.6
ELEVATION OF GROUND SURFACE AT WELL 3281C=997.0
3281C
3241F
ELEVATION IN FEET U.S.C.&G.S. DATUM
GROUND WATER FLUCTUATIONS
WELL NOS. 3241F & 3281C
POMONA BASIN
AREA II
860
840
820
800
780
760
740
720
700
680
660
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950

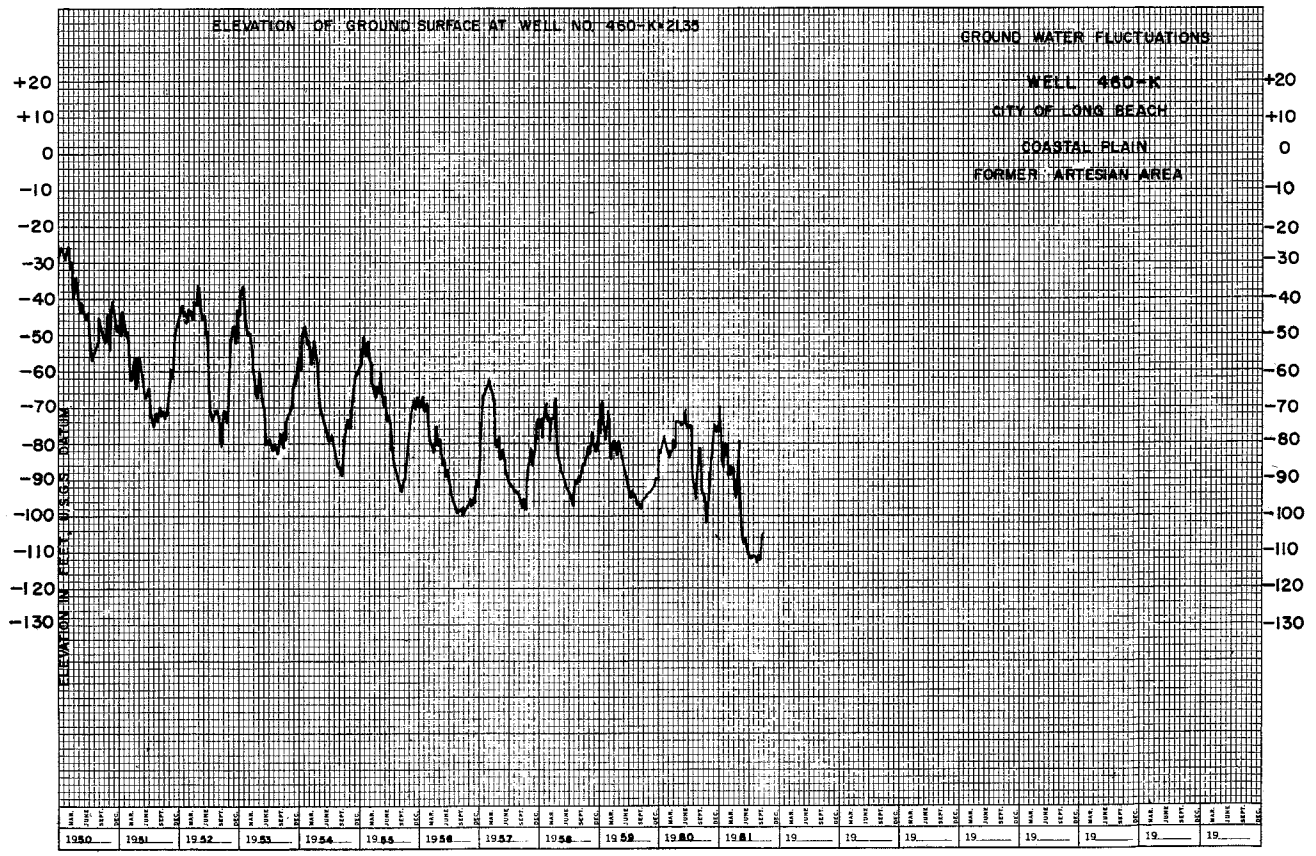

ELEVATION OF GROUND SURFACE AT WELL 326IC=997.0
ELEVATION OF GROUND SURFACE AT WELL 325IE=1015.9
GROUND WATER FLUCTUATIONS
WELL NOS. 325IE & 326IC
POMONA BASIN
SHEET 2
326IC
325IE
MEASUREMENTS INTERRUPTED
ELEVATION IN FEET, U.S.G.S. DATUM
780
760
740
720
700
680
660
640
620
600
580
560
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961

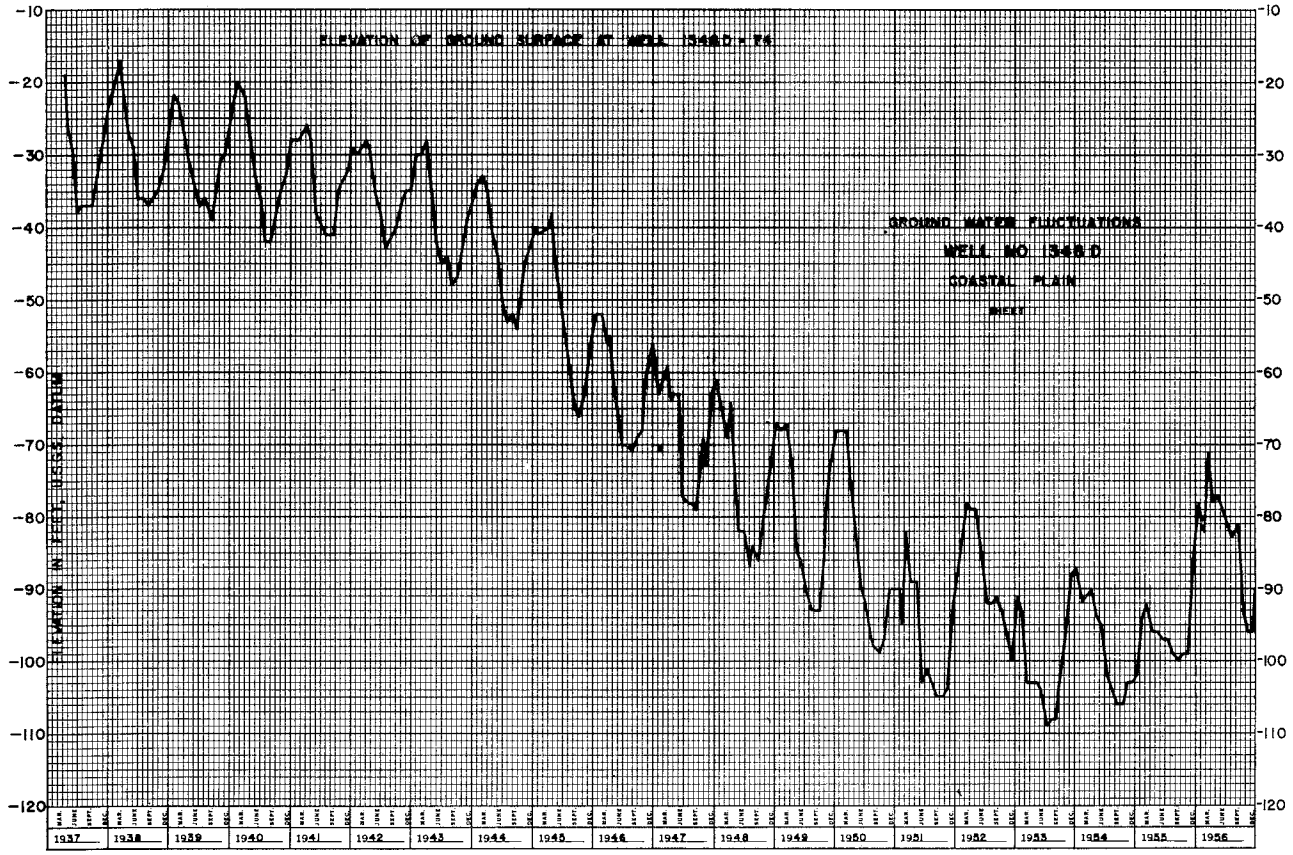

ELEVATION OF GROUND SURFACE AT WELL NO 1620
ELEVATION OF GROUND SURFACE AT WELL NO 1601E
ELEVATION OF GROUND SURFACE AT WELL NO 1601P
ONE MEASUREMENT ONLY, JAN 1904
CONTINUOUS RECORD BEGINS FEB. 1924
1620
1601E
1601P
GROUND WATER FLUCTUATIONS
WELL NOS. 1620 1601E & 1601P
COASTAL PLAIN - INTAKE AREA
SHEET 1
ELEVATION IN FEET, U.S.G.S. DATUM
170
160
150
140
130
120
110
1904
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942

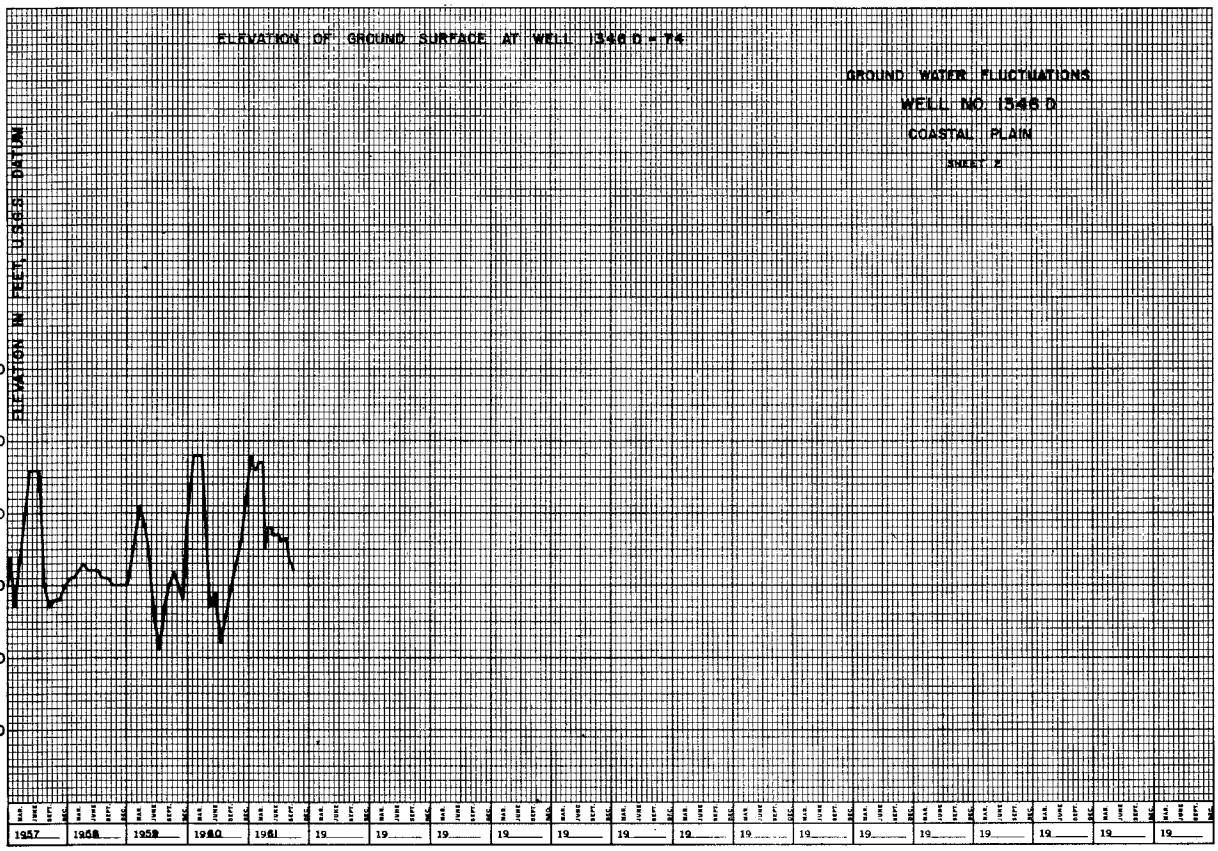

GROUND WATER FLUCTUATIONS
WELL NOS. 1620 1601E & 1601P
COASTAL PLAIN-INTAKE AREA
SHEET 2
ELEVATION IN FEET, USGS DATUM
1620
1601E
1601P
WELL DESTROYED
DRY
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961

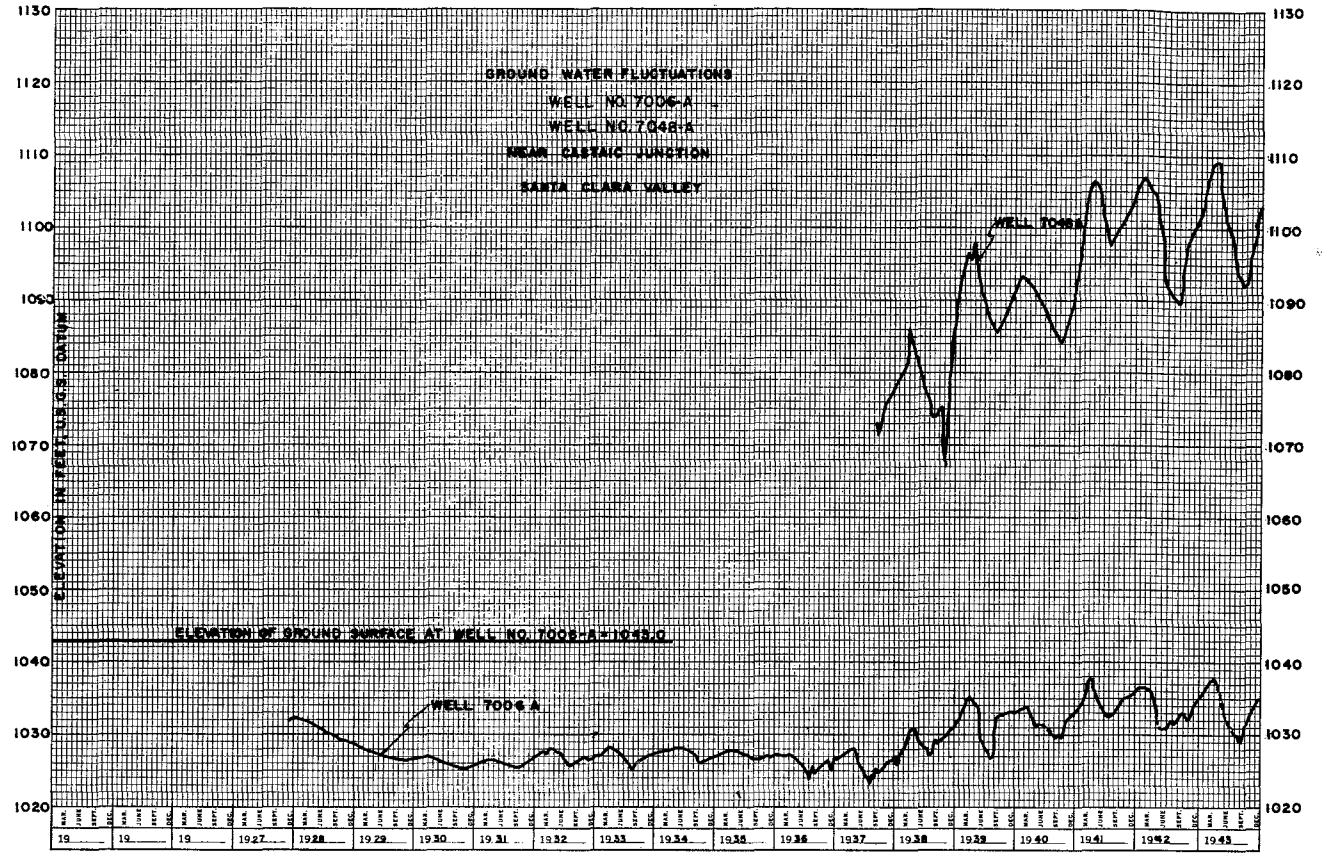

ELEVATION OF GROUND SURFACE AT WELL NO. 936 = 66.8
ELEVATION OF GROUND SURFACE AT WELL NO. 936C = 70.0
ELEVATION OF GROUND SURFACE AT WELL NO. 906D = 90.0
GROUND WATER FLUCTUATIONS
WELLS 936, 936C & 906D
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
ELEVATION IN FEET, USGS DATUM
936
936C
936
DISTROYED
906D
1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944
1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 19 19 19

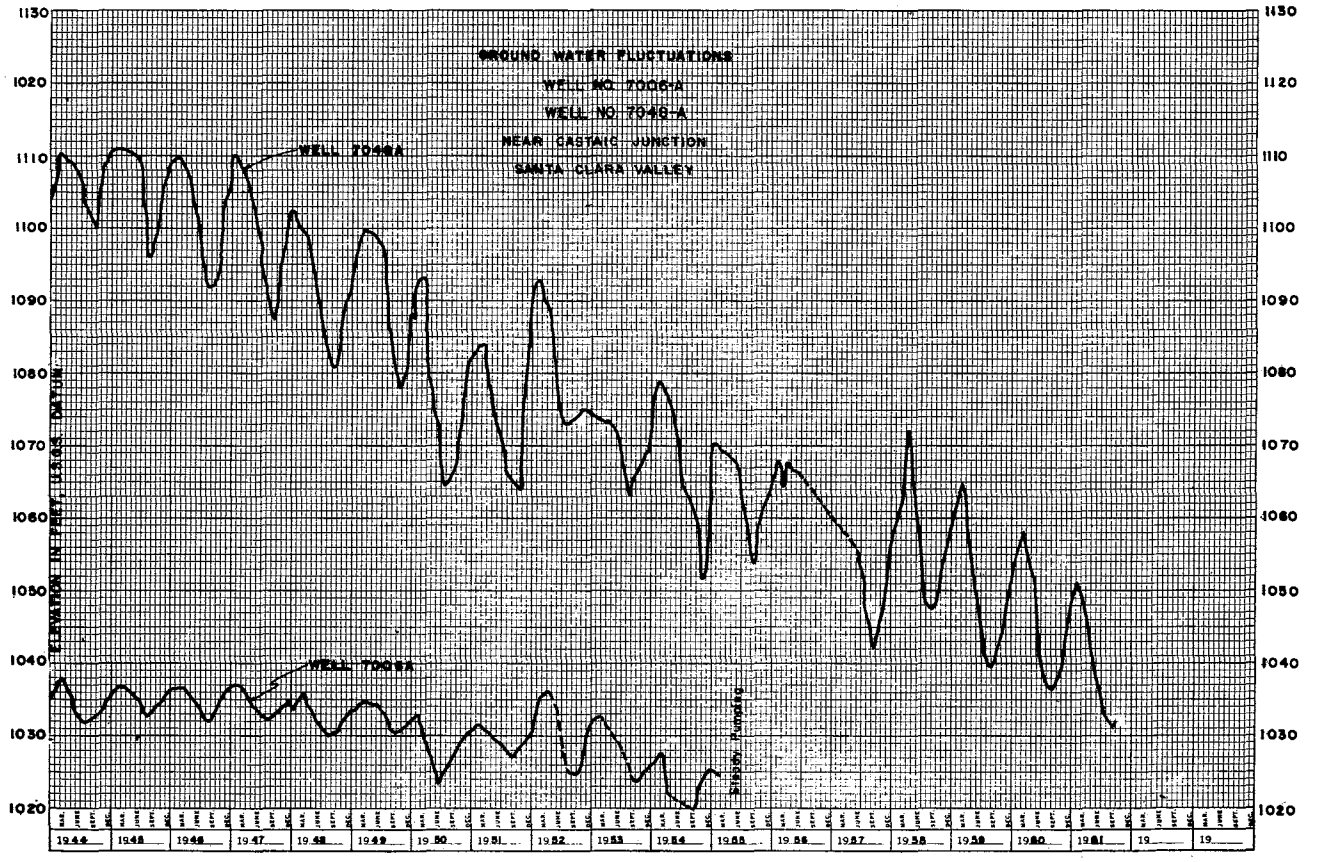

ELEVATION OF GROUND SURFACE AT WELL NO. 460-K=21.35
ELEVATION IN FEET ABOVE DATUM
+20
+10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
GROUND WATER FLUCTUATIONS
WELL 460-K
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949

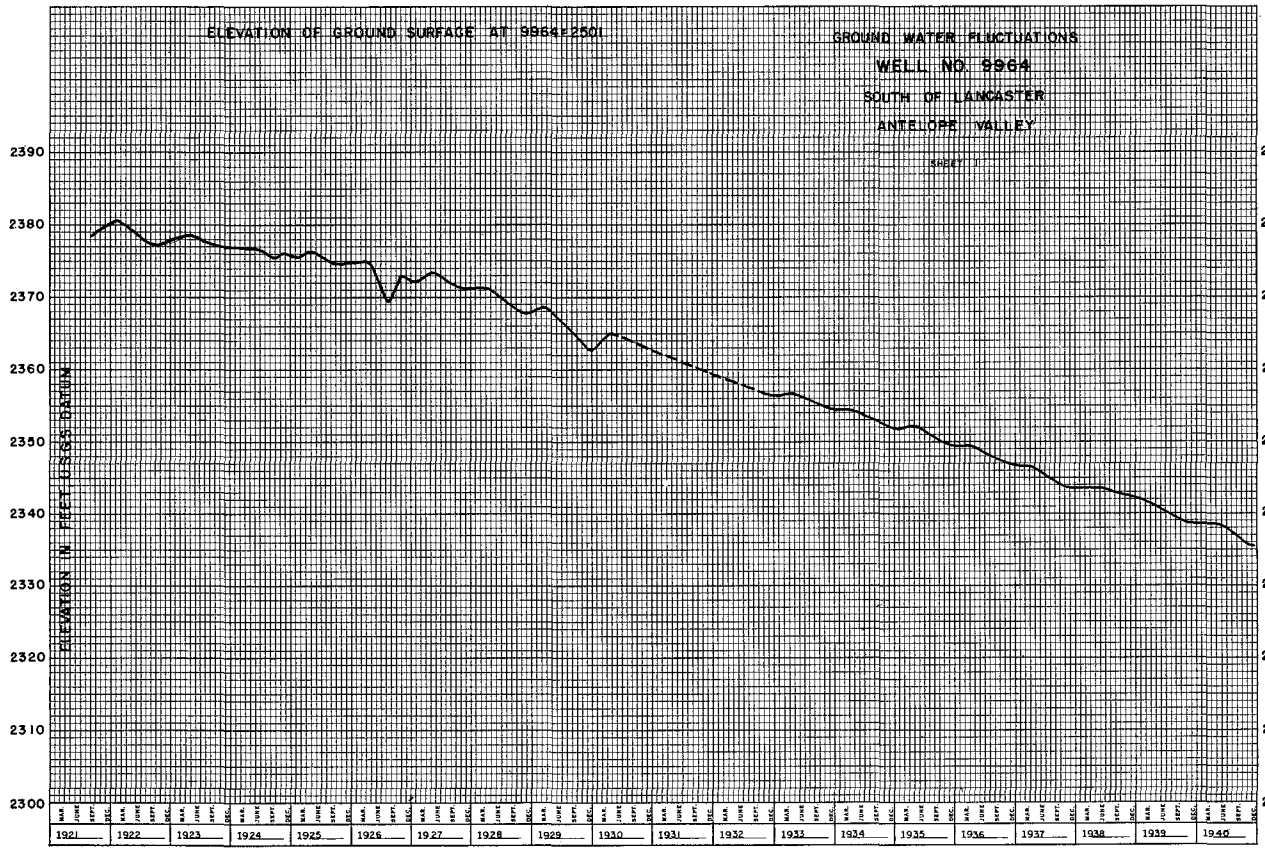

ELEVATION OF GROUND SURFACE AT WELL NO. 460-K=21.35
GROUND WATER FLUCTUATIONS
WELL 460-K
CITY OF LONG BEACH
COASTAL PLAIN
FORMER ARTESIAN AREA
ELEVATION IN FEET ABOVE DATUM
+20
+10
0
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
-130
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960
1961

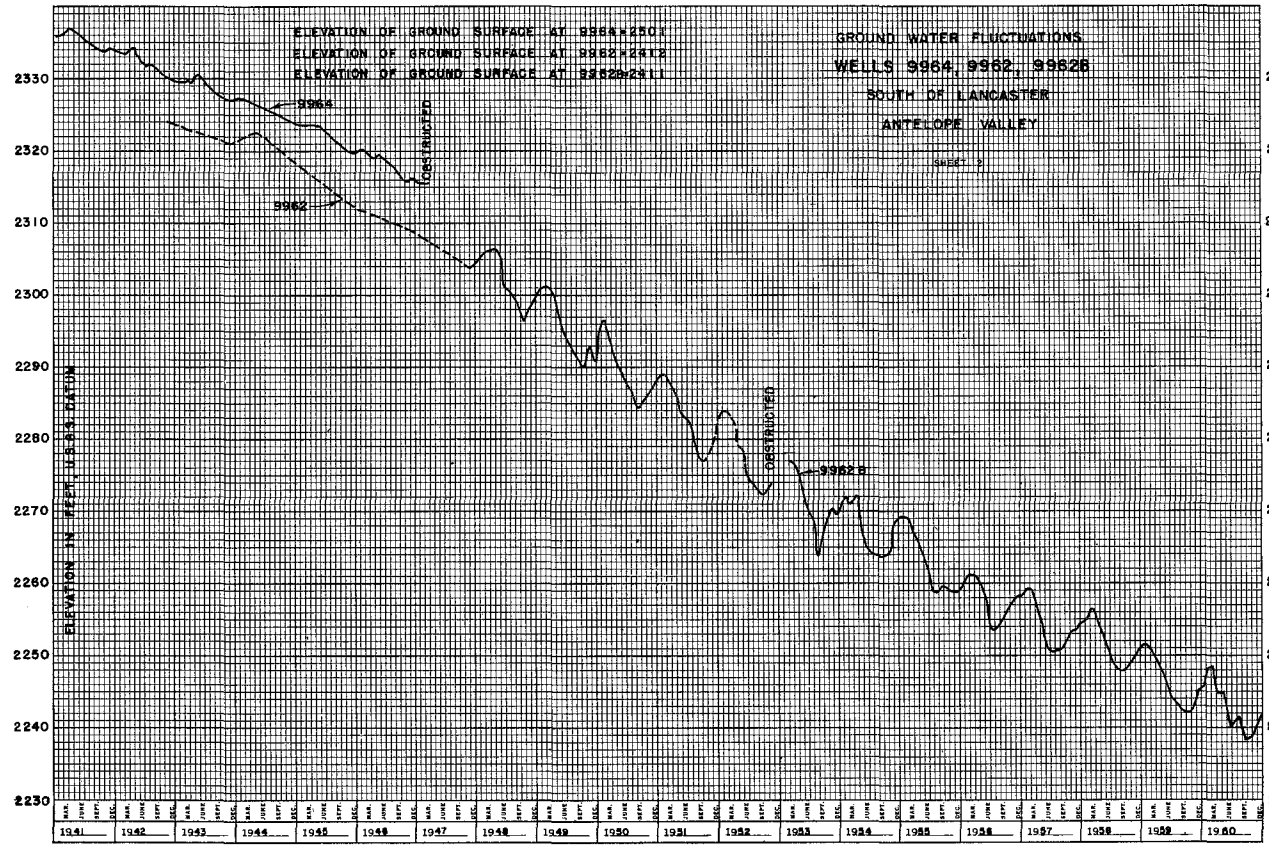

ELEVATION OF GROUND SURFACE AT WELL 1346 D - 74
GROUND WATER FLUCTUATIONS
WELL NO. 1346 D
COASTAL PLAIN
SHEET
ELEVATION IN FEET, USGS DATUM
-10
-20
-30
-40
-50
-60
-70
-80
-90
-100
-110
-120
1937
1938
1939
1940
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956

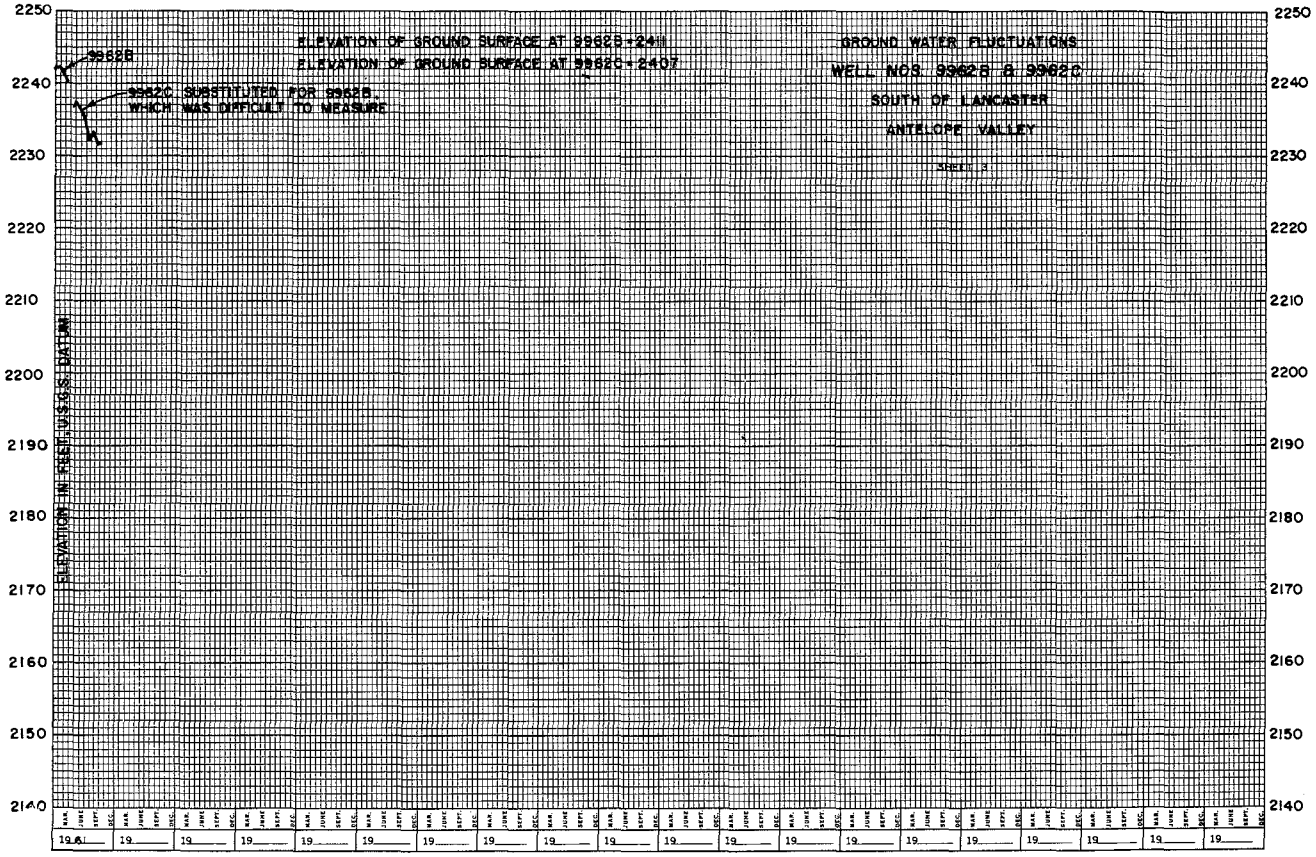

ELEVATION OF GROUND SURFACE AT WELL 1346 D - 74
GROUND WATER FLUCTUATIONS
WELL NO. 1346 D
COASTAL PLAIN
SHEET 2
ELEVATION IN FEET, USGS DATUM
-60
-70
-80
-90
-100
-110
1957
1958
1959
1960
1961
19
19
19
19
19
19
19
19
19
19
19
19
19
19
19
19

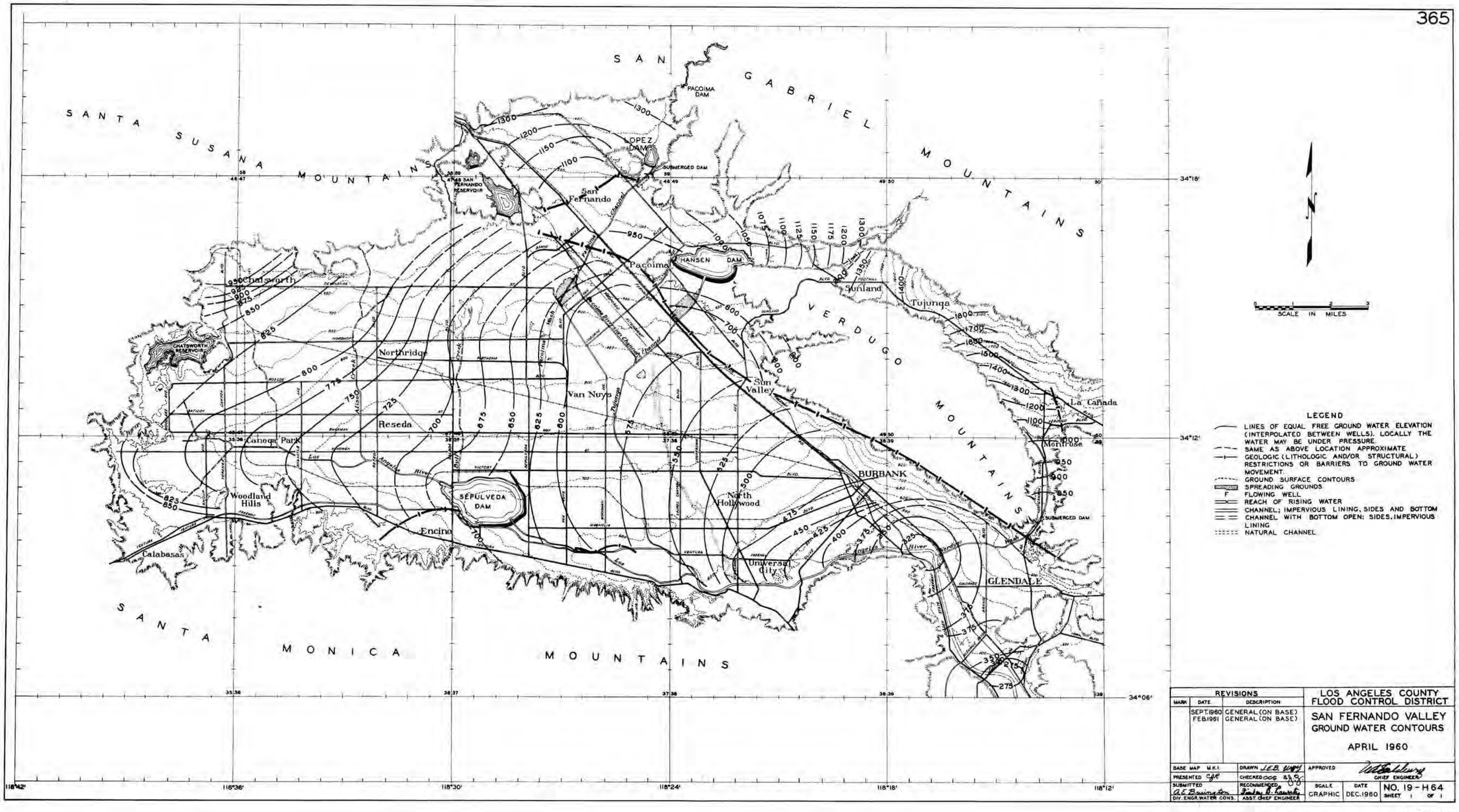

GROUND WATER FLUCTUATIONS
WELL NO. 7006-A
WELL NO. 7048-A
NEAR CASTAIC JUNCTION
SANTA CLARA VALLEY
ELEVATION IN FEET, U.S.G.S. DATUM
WELL 7048-A
WELL 7006-A
ELEVATION OF GROUND SURFACE AT WELL NO. 7006-A = 1048.0
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
1020
19 19 19 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943


GROUND WATER FLUCTUATIONS
WELL NO. 7006-A
WELL NO. 7048-A
NEAR CASTAIC JUNCTION
SANTA CLARA VALLEY
ELEVATION IN FEET, U.S.G.S. DATUM
WELL 7048-A
WELL 7006-A
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
1020
1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 19 19

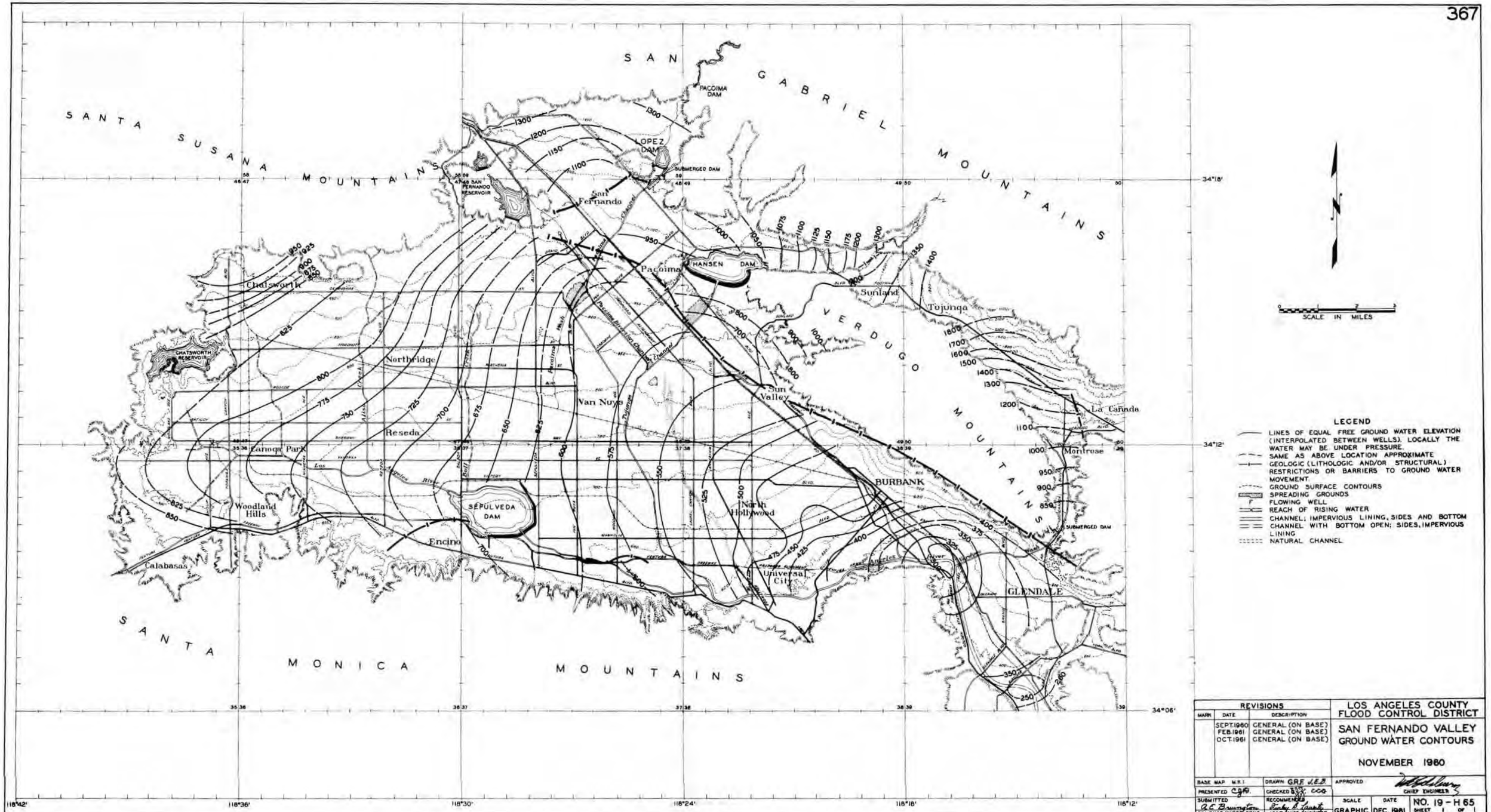

ELEVATION OF GROUND SURFACE AT 9964±250'
GROUND WATER FLUCTUATIONS
WELL NO. 9964
SOUTH OF LANCASTER
ANTELOPE VALLEY
SHEET 1
ELEVATION IN FEET-U.S.G.S. DATUM
2390
2380
2370
2360
2350
2340
2330
2320
2310
2300
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
1939
1940


ELEVATION OF GROUND SURFACE AT 9964±250'
ELEVATION OF GROUND SURFACE AT 9962±2412'
ELEVATION OF GROUND SURFACE AT 9962B±2411'
GROUND WATER FLUCTUATIONS
WELLS 9964, 9962, 9962B
SOUTH OF LANCASTER
ANTELOPE VALLEY
SHEET 2
9964
9962
DESTROYED
DESTROYED
9962B
ELEVATION IN FEET, U.S.G.S. DATUM
2330
2320
2310
2300
2290
2280
2270
2260
2250
2240
2230
1941
1942
1943
1944
1945
1946
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
1957
1958
1959
1960

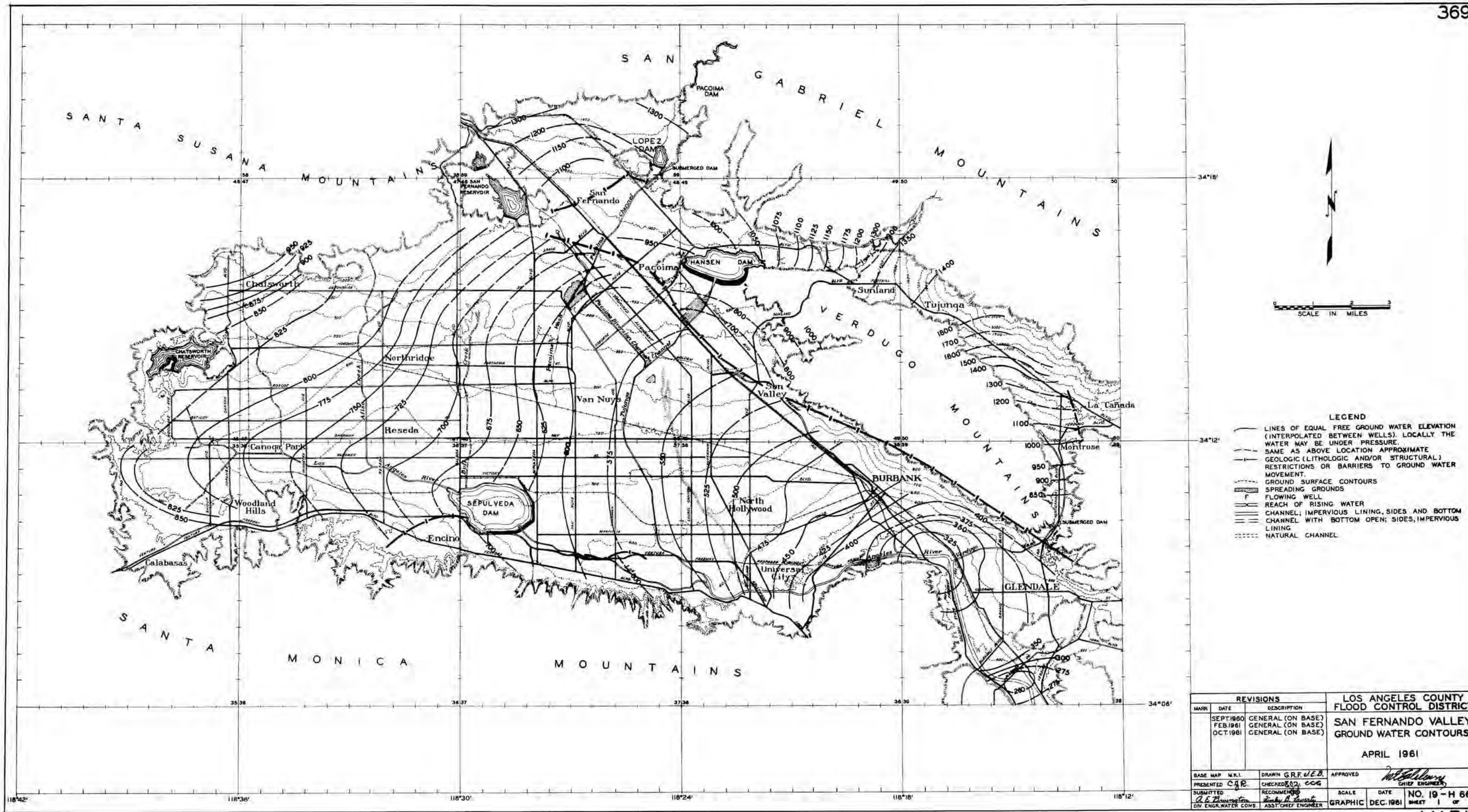

ELEVATION OF GROUND SURFACE AT 9362B=2411
ELEVATION OF GROUND SURFACE AT 9362C=2407
GROUND WATER FLUCTUATIONS
WELL NOS. 9362B & 9362C
SOUTH OF LANCASTER
ANTELOPE VALLEY
SHEET 3
9362B
9362C SUBSTITUTED FOR 9362B WHICH WAS DIFFICULT TO MEASURE
ELEVATION IN FEET U.S.G.S. DATUM
2250
2240
2230
2220
2210
2200
2190
2180
2170
2160
2150
2140
MAR. JUNE SEPT. DEC.
19 61


SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
VERDUGO MOUNTAINS
PACOIMA DAM
LOPEZ DAM
SUBMERGED DAM
SAN FERNANDO RESERVOIR
San Fernando
Pacoima
HANSEN DAM
Sunland
Tujunga
La Cañada
Montrose
Chatsworth
CHATSWORTH RESERVOIR
Northridge
Van Nuys
Sun Valley
Reseda
Canoga Park
Woodland Hills
SEPULVEDA DAM
Encino
Calabasas
North Hollywood
BURBANK
Universal City
GLENDALE
SCALE IN MILES
34°18'
34°12'
34°06'
118°42'
118°36'
118°30'
118°24'
118°18'
118°12'
LEGEND
LINES OF EQUAL FREE GROUND WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE.
SAME AS ABOVE LOCATION APPROXIMATE
GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT.
GROUND SURFACE CONTOURS
SPREADING GROUNDS
F FLOWING WELL
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN: SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
REVISIONS
MARK DATE DESCRIPTION
SEPT.1960 GENERAL (ON BASE)
FEB.1961 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY GROUND WATER CONTOURS
APRIL 1960
BASE MAP M.K.I.
DRAWN J.E.B.
APPROVED
PRESENTED
CHECKED
CHIEF ENGINEER
SUBMITTED
RECOMMENDED
DIV. ENGR. WATER CONS.
ASST. CHIEF ENGINEER
SCALE GRAPHIC
DATE DEC.1960
NO. 19-H64
SHEET 1 OF 1

MAP VII


SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
VERDUGO MOUNTAINS
PACOIMA DAM
LOPEZ DAM
SUBMERGED DAM
SAN FERNANDO RESERVOIR
San Fernando
Pacoima
HANSEN DAM
Sunland
Tujunga
Chatsworth
CHATSWORTH RESERVOIR
Northridge
Van Nuys
Sun Valley
La Cañada
Montrose
Reseda
Canoga Park
Woodland Hills
SEPULVEDA DAM
Encino
Calabasas
North Hollywood
BURBANK
Universal City
GLENDALE
SUBMERGED DAM
34°18'
34°12'
34°06'
118°42'
118°36'
118°30'
118°24'
118°18'
118°12'
SCALE IN MILES
LEGEND
LINES OF EQUAL FREE GROUND WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE.
SAME AS ABOVE LOCATION APPROXIMATE
GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT
GROUND SURFACE CONTOURS
SPREADING GROUNDS
FLOWING WELL
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
REVISIONS
MARK DATE DESCRIPTION
SEPT.1960 GENERAL (ON BASE)
FEB.1961 GENERAL (ON BASE)
OCT.1961 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY GROUND WATER CONTOURS
NOVEMBER 1960
BASE MAP M.R.I.
DRAWN G.R.F. J.E.B.
APPROVED
PRESENTED C.J.W.
CHECKED
CHIEF ENGINEER
SUBMITTED A.E. Brunington
DIV. ENGR. WATER CONS.
RECOMMENDED Finley B. Lawrie
ASST. CHIEF ENGINEER
SCALE GRAPHIC
DATE DEC. 1961
NO. 19 - H 65
SHEET 1 OF 1

MAP VIII


SAN GABRIEL MOUNTAINS
SANTA SUSANA MOUNTAINS
SANTA MONICA MOUNTAINS
VERDUGO MOUNTAINS
PACOIMA DAM
LOPEZ DAM
SUBMERGED DAM
SAN FERNANDO RESERVOIR
San Fernando
Pacoima
HANSEN DAM
Sunland
Tujunga
Chatsworth
CHATSWORTH RESERVOIR
Northridge
Van Nuys
Sun Valley
La Cañada
Montrose
Reseda
Canoga Park
Woodland Hills
SEPULVEDA DAM
Encino
Calabasas
North Hollywood
BURBANK
Universal City
GLENDALE
SUBMERGED DAM
34°18'
34°12'
34°06'
118°42'
118°36'
118°30'
118°24'
118°18'
118°12'
SCALE IN MILES
LEGEND
LINES OF EQUAL FREE GROUND WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE.
SAME AS ABOVE LOCATION APPROXIMATE
GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT.
GROUND SURFACE CONTOURS
SPREADING GROUNDS
FLOWING WELL
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
REVISIONS
MARK
DATE
DESCRIPTION
SEPT. 1960 GENERAL (ON BASE)
FEB. 1961 GENERAL (ON BASE)
OCT. 1961 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN FERNANDO VALLEY GROUND WATER CONTOURS
APRIL 1961
BASE MAP M.K.I.
DRAWN G.R.F. J.E.B.
PRESENTED C.J.R.
CHECKED E.G.R. CCG
APPROVED
CHIEF ENGINEER
SUBMITTED
A. E. Brunington
DIV. ENGR. WATER CONS.
RECOMMENDED
Finley B. Laverty
ASST. CHIEF ENGINEER
SCALE GRAPHIC
DATE DEC. 1961
NO. 19-H 66
SHEET 1 OF 1

MAP IX

SAN GABRIEL MOUNTAINS

LEGEND

- LINES OF EQUAL FREE GROUND WATER ELEVATION (INTERPOLATED BETWEEN WELLS), LOCALLY THE WATER MAY BE UNDER PRESSURE.
- SAME AS ABOVE - LOCATION APPROXIMATE
- GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT.
- GROUND SURFACE CONTOURS
- SPREADING GROUNDS
- F FLOWING WELL
- REACH OF RISING WATER
- CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS
- NATURAL CHANNEL

SCALE IN MILES

REVISIONS		
MARK	DATE	DESCRIPTION
	NOV. 1959	GENERAL (ON BASE)
	OCT. 1961	GENERAL (ON BASE)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

SAN GABRIEL VALLEY GROUND WATER CONTOURS

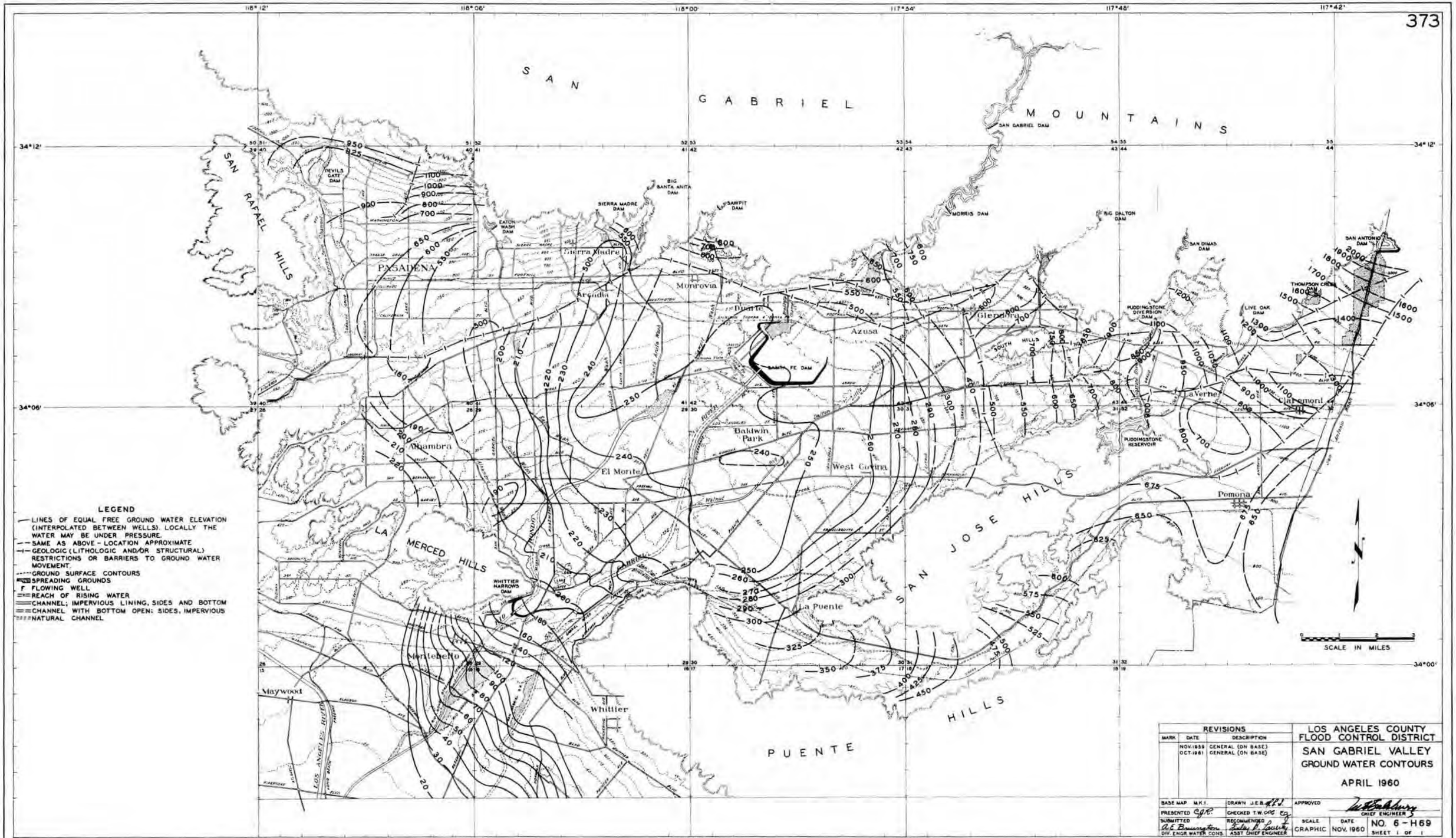
NOVEMBER 1959

BASE MAP M.K.I.	DRAWN J.E.B.	APPROVED	CHIEF ENGINEER
PRESENTED C.G.P.	CHECKED T.W.		
SUBMITTED A.E. Bannington DIV. ENGR. WATER CONS.	RECOMMENDED Finley P. Laverty ASST. CHIEF ENGINEER	SCALE GRAPHIC	DATE NOV. 1960

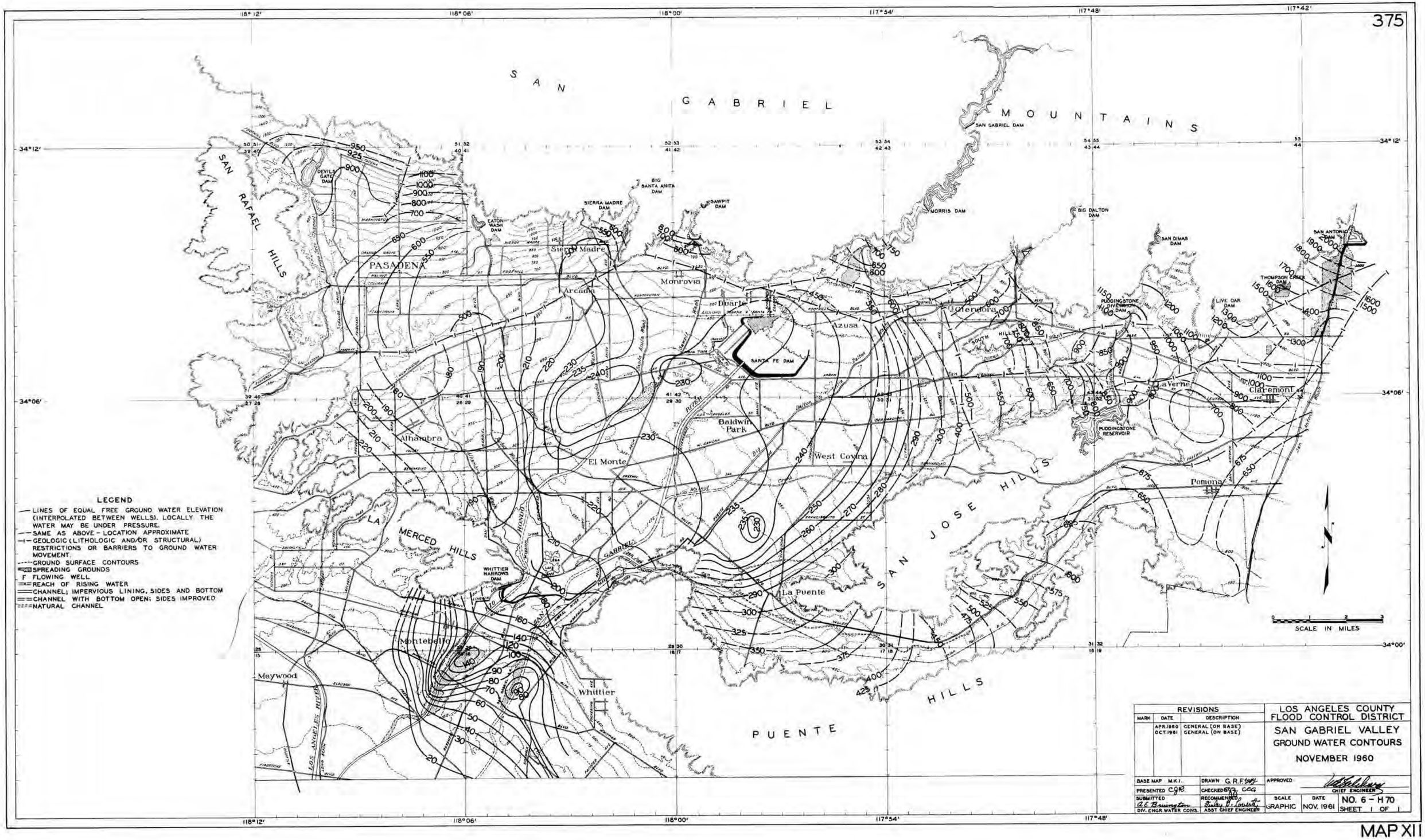
NO. 6 - H68

SHEET 1 OF 1

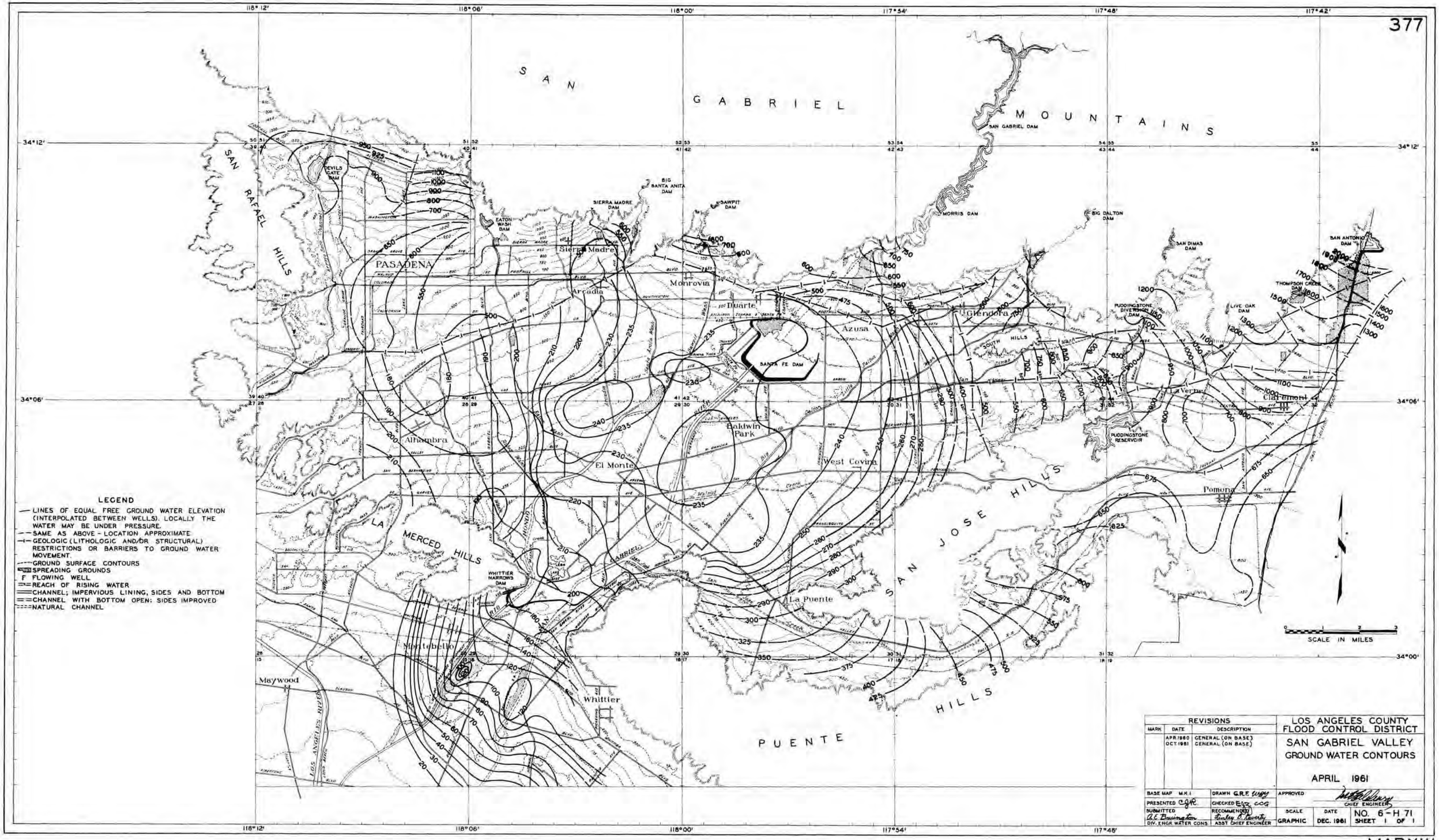
MAP X


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
LA MERCED HILLS
SAN JOSE HILLS
PUENTE HILLS
PASADENA
Sierra Madre
Arcadia
Monrovia
Duarte
Azusa
Glendora
La Verne
Claremont
Pomona
Alhambra
El Monte
Baldwin Park
West Covina
La Puente
Montebello
Maywood
Whittier
SAN GABRIEL DAM
MORRIS DAM
BIG DALTON DAM
SAN DIMAS DAM
SAN ANTONIO DAM
THOMPSON CREEK DAM
LIVE OAK DAM
PUDDINGSTONE DIVERSION DAM
PUDDINGSTONE RESERVOIR
SAWPIT DAM
BIG SANTA ANITA DAM
SIERRA MADRE DAM
EATON WASH DAM
DEVILS GATE DAM
SANTA FE DAM
WHITTIER NARROWS DAM
SOUTH HILLS
LOS ANGELES RIVER
SCALE IN MILES
118°12'
118°06'
118°00'
117°54'
117°48'
117°42'
34°12'
34°06'
34°00'
LEGEND
LINES OF EQUAL FREE GROUND WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE.
SAME AS ABOVE - LOCATION APPROXIMATE
GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT.
GROUND SURFACE CONTOURS
SPREADING GROUNDS
FLOWING WELL
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS
NATURAL CHANNEL
REVISIONS
MARK
DATE
DESCRIPTION
NOV. 1959 GENERAL (ON BASE)
OCT. 1961 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND WATER CONTOURS
APRIL 1960
BASE MAP M.K.I.
DRAWN J.E.B.
PRESENTED
CHECKED T.W.
SUBMITTED
DIV. ENGR. WATER CONS.
RECOMMENDED
ASST. CHIEF ENGINEER
APPROVED
CHIEF ENGINEER
SCALE
GRAPHIC
DATE
NOV. 1960
NO. 6 - H69
SHEET 1 OF 1

MAP XI


SAN GABRIEL MOUNTAINS
SAN RAFAEL HILLS
LA MERCED HILLS
SAN JOSE HILLS
PUENTE HILLS
PASADENA
Sierra Madre
Arcadia
Monrovia
Duarte
Azusa
Glendora
La Verne
Claremont
Pomona
Alhambra
El Monte
Baldwin Park
West Covina
La Puente
Montebello
Maywood
Whittier
SANTA FE DAM
SAN GABRIEL DAM
MORRIS DAM
BIG DALTON DAM
SAN DIMAS DAM
SAN ANTONIO DAM
THOMPSON CREEK DAM
LIVE OAK DAM
PUDDINGSTONE DIVERSION DAM
PUDDINGSTONE RESERVOIR
SAWPIT DAM
BIG SANTA ANITA DAM
SIERRA MADRE DAM
EATON WASH DAM
DEVILS GATE DAM
WHITTIER NARROWS DAM
LOS ANGELES RIVER
SCALE IN MILES
LEGEND
LINES OF EQUAL FREE GROUND WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE.
SAME AS ABOVE - LOCATION APPROXIMATE
GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT.
GROUND SURFACE CONTOURS
SPREADING GROUNDS
F FLOWING WELL
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES IMPROVED
NATURAL CHANNEL
REVISIONS
MARK DATE DESCRIPTION
APR.1960 GENERAL (ON BASE)
OCT.1961 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
SAN GABRIEL VALLEY
GROUND WATER CONTOURS
NOVEMBER 1960
BASE MAP M.K.I.
DRAWN G.R.F.
PRESENTED C.G.R.
CHECKED
APPROVED
CHIEF ENGINEER
SUBMITTED
DIV. ENGR. WATER CONS.
RECOMMENDED
ASST CHIEF ENGINEER
SCALE GRAPHIC
DATE NOV. 1961
NO. 6 - H 70
SHEET 1 OF 1

MAP XII



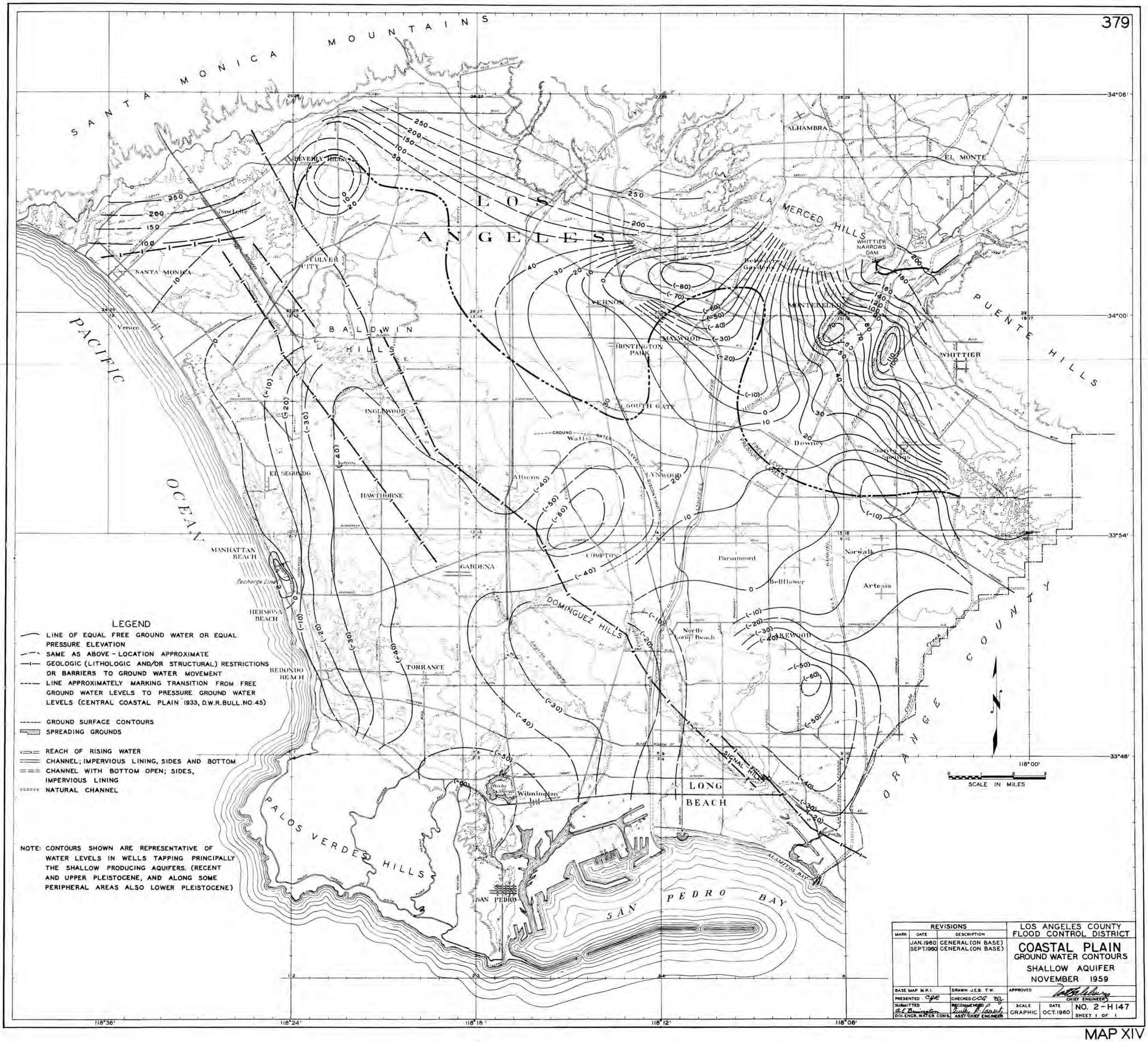
LEGEND

- LINES OF EQUAL FREE GROUND WATER ELEVATION (INTERPOLATED BETWEEN WELLS). LOCALLY THE WATER MAY BE UNDER PRESSURE.
- SAME AS ABOVE - LOCATION APPROXIMATE
- GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT
- GROUND SURFACE CONTOURS
- SPREADING GROUNDS
- F FLOWING WELL
- REACH OF RISING WATER
- CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- CHANNEL WITH BOTTOM OPEN: SIDES IMPROVED
- NATURAL CHANNEL

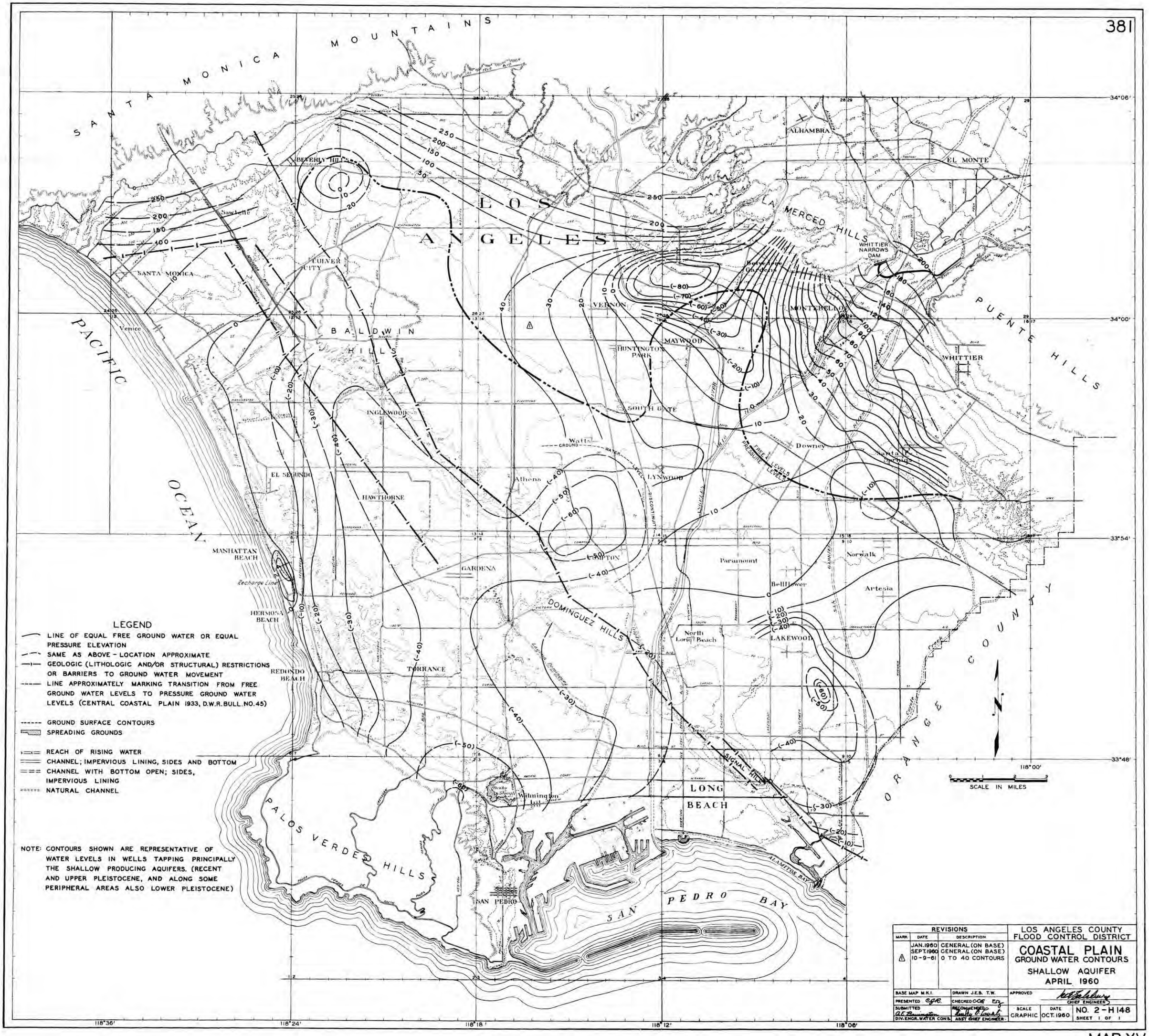
REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	SAN GABRIEL VALLEY GROUND WATER CONTOURS
	APR. 1960	GENERAL (ON BASE)	
	OCT. 1961	GENERAL (ON BASE)	APRIL 1961

BASE MAP M.K.I.	DRAWN G.R.F. Wgy	APPROVED	CHIEF ENGINEER
PRESENTED C.G.R.	CHECKED E.Z. COG		
SUBMITTED A.E. Bourington DIV. ENGR. WATER CONS.	RECOMMENDED Stanley B. Laurent ASST. CHIEF ENGINEER	SCALE GRAPHIC	DATE DEC. 1961 — NO. 6-H 71 SHEET 1 OF 1

MAP XIII


SANTA MONICA MOUNTAINS
LOS ANGELES
PACIFIC OCEAN
BALDWIN HILLS
LA MERCED HILLS
PUENTE HILLS
DOMINGUEZ HILLS
PALOS VERDES HILLS
SAN PEDRO BAY
ORANGE COUNTY
SANTA MONICA
Venice
BEVERLY HILLS
CULVER CITY
INGLEWOOD
EL SEGUNDO
HAWTHORNE
MANHATTAN BEACH
HERMOSA BEACH
REDONDO BEACH
TORRANCE
GARDENA
COMPTON
LYNWOOD
Athens
Watts
SOUTH GATE
HUNTINGTON PARK
MAYWOOD
VERNON
Belvedere Gardens
MONTEBELLO
WHITTIER
WHITTIER NARROWS DAM
EL MONTE
ALHAMBRA
Downey
Santa Fe Springs
Paramount
Bellflower
Norwalk
Artesia
North Long Beach
LAKEWOOD
LONG BEACH
Wilmington
SAN PEDRO
ALAMITOS BAY
Recharge Line
GROUND WATER LEVEL
FREE LEVELS
PRESSURE LEVELS
DISCONTINUITY
34°06'
34°00'
33°54'
33°48'
118°00'
118°36'
118°24'
118°18'
118°12'
118°06'
SCALE IN MILES
LEGEND
LINE OF EQUAL FREE GROUND WATER OR EQUAL PRESSURE ELEVATION
SAME AS ABOVE - LOCATION APPROXIMATE
GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT
LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND WATER LEVELS TO PRESSURE GROUND WATER LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE SHALLOW PRODUCING AQUIFERS. (RECENT AND UPPER PLEISTOCENE, AND ALONG SOME PERIPHERAL AREAS ALSO LOWER PLEISTOCENE)
REVISIONS
MARK DATE DESCRIPTION
JAN. 1960 GENERAL (ON BASE)
SEPT. 1960 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER CONTOURS
SHALLOW AQUIFER
NOVEMBER 1959
BASE MAP M.K.I.
DRAWN J.E.B. T.W.
APPROVED
PRESENTED
CHECKED
CHIEF ENGINEER
SUBMITTED
RECOMMENDED
DIV. ENGR. WATER CONS.
ASST. CHIEF ENGINEER
SCALE GRAPHIC
DATE OCT. 1960
NO. 2-H147
SHEET 1 OF 1

MAP XIV


SANTA MONICA MOUNTAINS
LOS ANGELES
LA MERCED HILLS
PUENTE HILLS
BALDWIN HILLS
DOMINGUEZ HILLS
PALOS VERDES HILLS
PACIFIC OCEAN
ORANGE COUNTY
SAN PEDRO BAY
ALAMITOS BAY
BEVERLY HILLS
SANTA MONICA
Venice
CULVER CITY
INGLEWOOD
EL SEGUNDO
HAWTHORNE
MANHATTAN BEACH
HERMOSA BEACH
REDONDO BEACH
TORRANCE
GARDENA
COMPTON
Athens
Watts
LYNWOOD
VERNON
HUNTINGTON PARK
MAYWOOD
SOUTH GATE
MONTEBELLO
Belvedere Gardens
WHITTIER NARROWS DAM
WHITTIER
EL MONTE
ALHAMBRA
Downey
Santa Fe Springs
Paramount
Norwalk
Bellflower
Artesia
North Long Beach
LAKEWOOD
LONG BEACH
Wilmington
SAN PEDRO
Recharge Line
GROUND WATER LEVEL DISCONTINUITY
FREE LEVELS
PRESSURE LEVELS
SIGNAL HILL
34°06'
34°00'
33°54'
33°48'
118°00'
118°36'
118°24'
118°18'
118°12'
118°06'
SCALE IN MILES
LEGEND
LINE OF EQUAL FREE GROUND WATER OR EQUAL PRESSURE ELEVATION
SAME AS ABOVE - LOCATION APPROXIMATE
GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT
LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND WATER LEVELS TO PRESSURE GROUND WATER LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE SHALLOW PRODUCING AQUIFERS. (RECENT AND UPPER PLEISTOCENE, AND ALONG SOME PERIPHERAL AREAS ALSO LOWER PLEISTOCENE)
REVISIONS
MARK DATE DESCRIPTION
JAN. 1960 GENERAL (ON BASE)
SEPT. 1960 GENERAL (ON BASE)
10-9-61 0 TO 40 CONTOURS
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER CONTOURS
SHALLOW AQUIFER
APRIL 1960
BASE MAP M.K.I.
DRAWN J.E.B. T.W.
PRESENTED
CHECKED
SUBMITTED
RECOMMENDED
DIV. ENGR. WATER CONS.
ASST CHIEF ENGINEER
APPROVED
CHIEF ENGINEER
SCALE GRAPHIC
DATE OCT. 1960
NO. 2-H148
SHEET 1 OF 1

MAP XV

COASTAL PLAIN
GROUND WATER CONTOURS
SHALLOW AQUIFER
NOVEMBER 1960

SANTA MONICA MOUNTAINS

LOS ANGELES

PACIFIC OCEAN

PUENTE HILLS

LA MERCED HILLS

BALDWIN HILLS

DOMINGUEZ HILLS

PALOS VERDES HILLS

ORANGE COUNTY

SAN PEDRO BAY

ALAMITOS BAY

Beverly Hills, Sawtelle, Culver City, Santa Monica, Venice, Inglewood, Watts, El Segundo, Hawthorne, Athens, Lynwood, Gardena, Compton, Manhattan Beach, Hermosa Beach, Redondo Beach, Torrance, South Gate, Huntington Park, Vernon, Maywood, Montebello, Alhambra, El Monte, Whittier Narrows Dam, Whittier, Santa Fe Springs, Downey, Paramount, Bellflower, Norwalk, Artesia, Lakewood, North Long Beach, Long Beach, Wilmington, San Pedro

Reference: Water Level Contours, Central Coastal Plain, 1933, D.W.R. Bull. No. 45

LEGEND

- LINE OF EQUAL FREE GROUND WATER OR EQUAL PRESSURE ELEVATION
- SAME AS ABOVE - LOCATION APPROXIMATE
- GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT
- LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND WATER LEVELS TO PRESSURE GROUND WATER LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45)
- GROUND SURFACE CONTOURS
- SPREADING GROUNDS
- REACH OF RISING WATER
- CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
- NATURAL CHANNEL

NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE SHALLOW PRODUCING AQUIFERS. (RECENT AND UPPER PLEISTOCENE, AND ALONG SOME PERIPHERAL AREAS ALSO LOWER PLEISTOCENE)

34°06'
34°00'
33°54'
33°48'
118°36'
118°24'
118°18'
118°12'
118°06'
118°00'

SCALE IN MILES

REVISIONS		
MARK	DATE	DESCRIPTION
	JAN. 1960	GENERAL (ON BASE)
	SEPT. 1960	GENERAL (ON BASE)
	OCT. 1961	GENERAL (ON BASE)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

BASE MAP M.K.I. | DRAWN J.E.B. | CHECKED S.D.B. C.C.G.

PRESENTED C.J.R. | RECOMMENDED Ruby A. Laurent, ASST CHIEF ENGINEER

SUBMITTED A.C. Bannington, DIV. ENGR. WATER CONS.

APPROVED W.H. Blume, CHIEF ENGINEER

SCALE GRAPHIC | DATE NOV. 1960 | NO. 2-H151 SHEET 1 OF 1

MAP XVI

COASTAL PLAIN GROUND WATER CONTOURS SHALLOW AQUIFER APRIL 1961

SANTA MONICA MOUNTAINS

LOS ANGELES

ORANGE COUNTY

PACIFIC OCEAN

PUENTE HILLS

LA MERCED HILLS

BALDWIN HILLS

PALOS VERDES HILLS

DOMINGUEZ HILLS

SAN PEDRO BAY

ALAMITOS BAY

Beverly Hills · Sawtelle · Santa Monica · Venice · Culver City · Alhambra · El Monte · Vernon · Montebello · Whittier · Whittier Narrows Dam · Maywood · Huntington Park · South Gate · Inglewood · El Segundo · Hawthorne · Watts · Athens · Lynwood · Compton · Gardena · Downey · Santa Fe Springs · Paramount · Norwalk · Bellflower · Artesia · Manhattan Beach · Hermosa Beach · Redondo Beach · Torrance · North Long Beach · Lakewood · Signal Hill · Long Beach · Wilmington · San Pedro

Recharge Line

Water Level Discontinuity

Free Ground Water Levels

Free Pressure Levels

34°06' · 34°00' · 33°54' · 33°48' · 118°36' · 118°24' · 118°18' · 118°12' · 118°06' · 118°00'

SCALE IN MILES 0 1 2 3

LEGEND

- LINE OF EQUAL FREE GROUND WATER OR EQUAL PRESSURE ELEVATION
- SAME AS ABOVE - LOCATION APPROXIMATE
- GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT
- LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND WATER LEVELS TO PRESSURE GROUND WATER LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R. BULL. NO. 45)
- GROUND SURFACE CONTOURS
- SPREADING GROUNDS
- CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
- CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
- NATURAL CHANNEL

NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE SHALLOW PRODUCING AQUIFERS. (RECENT AND UPPER PLEISTOCENE, AND ALONG SOME PERIPHERAL AREAS ALSO LOWER PLEISTOCENE)

REVISIONS		
MARK	DATE	DESCRIPTION
	JAN. 1960	GENERAL (ON BASE)
	SEPT. 1960	GENERAL (ON BASE)
	OCT. 1961	GENERAL (ON BASE)

LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

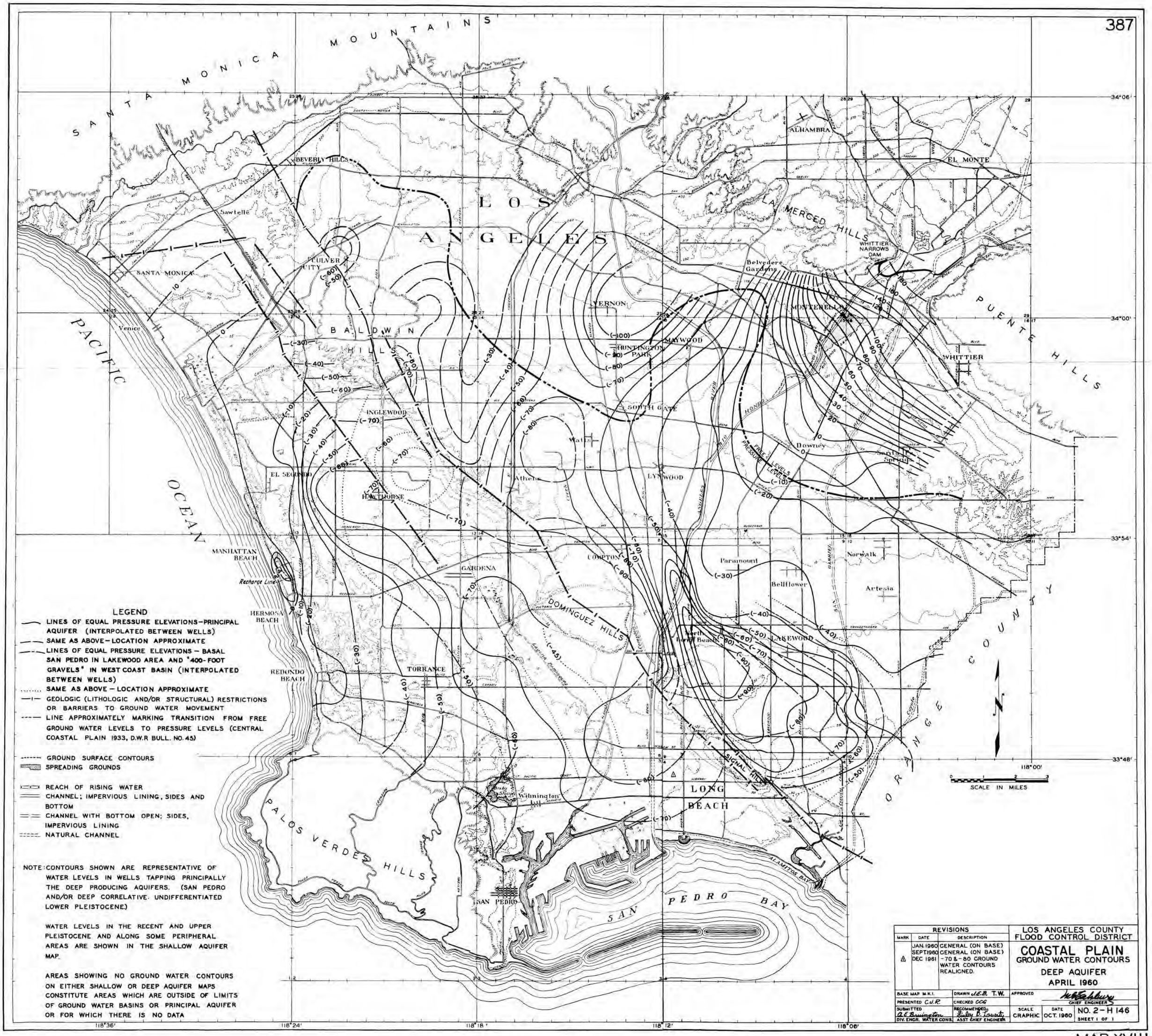
BASE MAP M.K.I. · DRAWN J.E.B. · APPROVED · CHIEF ENGINEER

PRESENTED · CHECKED · SUBMITTED · RECOMMENDED

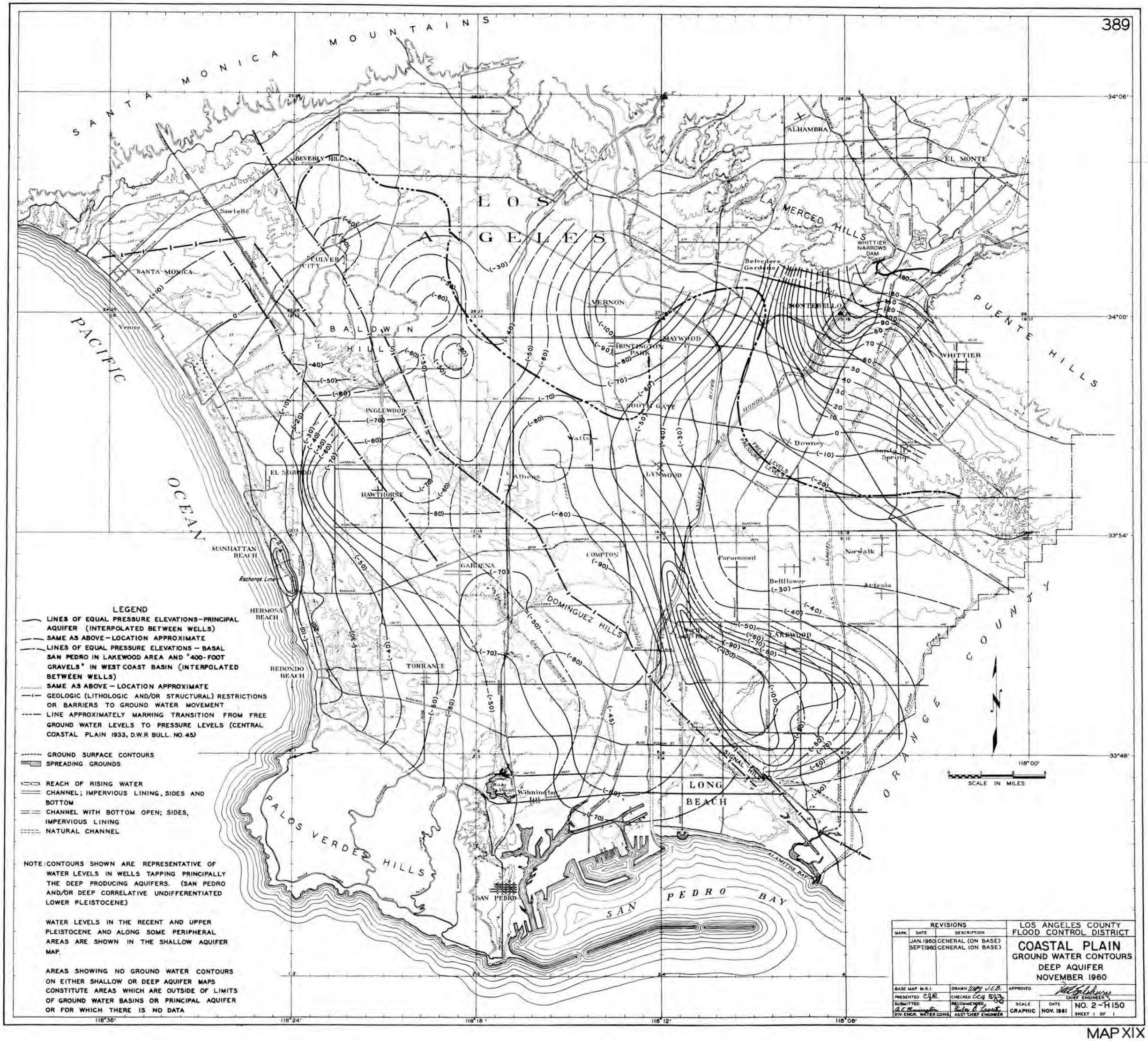
DIV. ENGR. WATER CON. · ASST. CHIEF DEPUTY ENGR.

SCALE GRAPHIC · DATE JAN. 1962 · NO. 2-H 154 · SHEET 1 OF 1

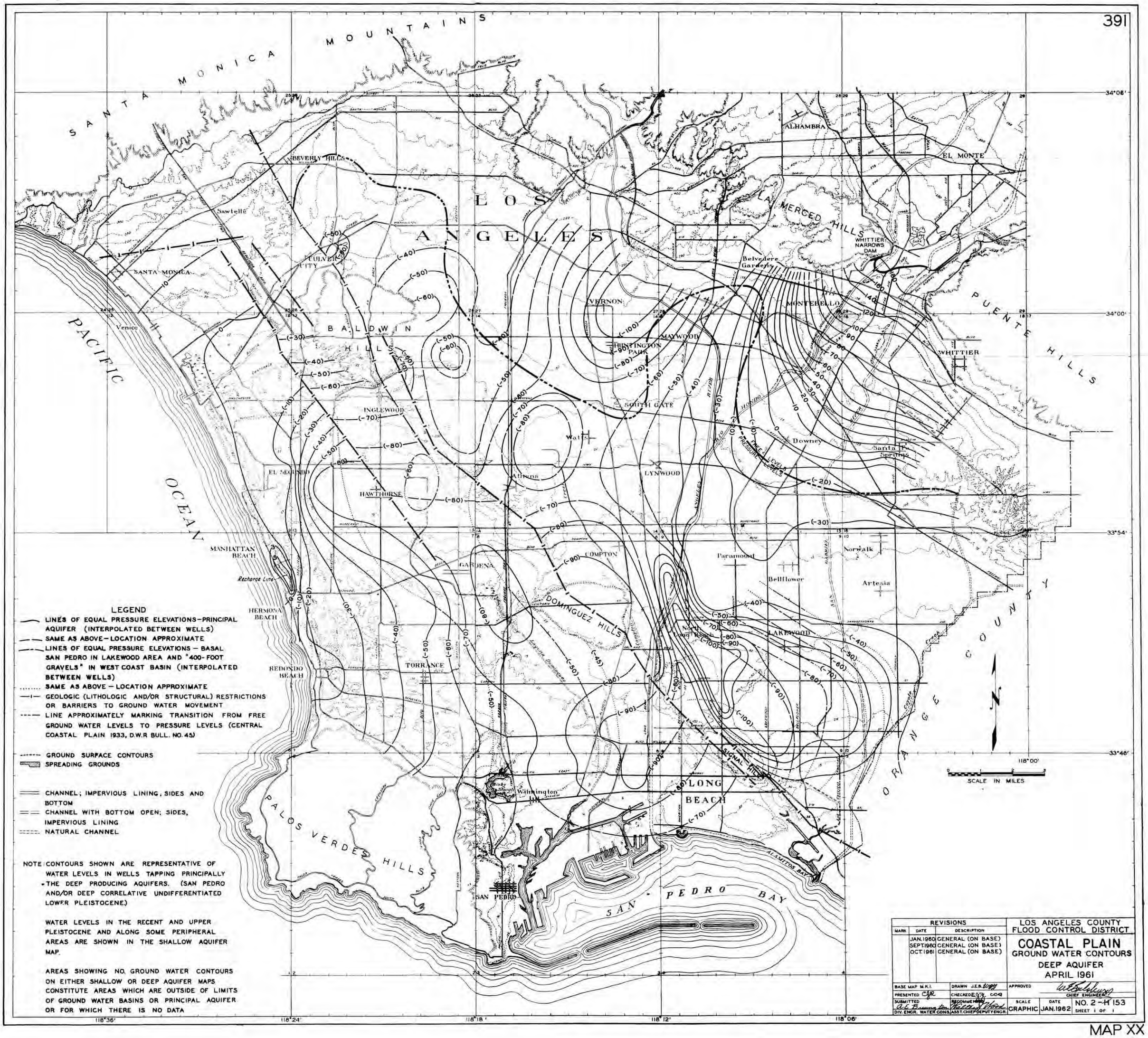
MAP XVII


SANTA MONICA MOUNTAINS
LOS ANGELES
BEVERLY HILLS
Sawtelle
SANTA MONICA
CULVER CITY
Venice
PACIFIC OCEAN
BALDWIN HILLS
INGLEWOOD
EL SEGUNDO
HAWTHORNE
MANHATTAN BEACH
Recharge Line
HERMOSA BEACH
REDONDO BEACH
TORRANCE
GARDENA
COMPTON
DOMINGUEZ HILLS
VERNON
HUNTINGTON PARK
MAYWOOD
SOUTH GATE
Watts
Athens
LYNWOOD
Belvedere Gardens
MONTEBELLO
LA MERCED HILLS
WHITTIER NARROWS DAM
ALHAMBRA
EL MONTE
PUENTE HILLS
WHITTIER
Downey
Santa Fe Springs
FREE LEVELS
PRESSURE LEVELS
Paramount
Bellflower
Norwalk
Artesia
North Long Beach
LAKEWOOD
SIGNAL HILL
LONG BEACH
Wilmington
PALOS VERDES HILLS
SAN PEDRO
SAN PEDRO BAY
ALAMITOS BAY
ORANGE COUNTY
SCALE IN MILES
34°06'
34°00'
33°54'
33°48'
118°36'
118°24'
118°18'
118°12'
118°06'
118°00'
LEGEND
LINES OF EQUAL PRESSURE ELEVATIONS–PRINCIPAL AQUIFER (INTERPOLATED BETWEEN WELLS)
SAME AS ABOVE–LOCATION APPROXIMATE
LINES OF EQUAL PRESSURE ELEVATIONS – BASAL SAN PEDRO IN LAKEWOOD AREA AND "400-FOOT GRAVELS" IN WEST COAST BASIN (INTERPOLATED BETWEEN WELLS)
SAME AS ABOVE – LOCATION APPROXIMATE
GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT
LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND WATER LEVELS TO PRESSURE LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R BULL. NO. 45)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE DEEP PRODUCING AQUIFERS. (SAN PEDRO AND/OR DEEP CORRELATIVE. UNDIFFERENTIATED LOWER PLEISTOCENE)
WATER LEVELS IN THE RECENT AND UPPER PLEISTOCENE AND ALONG SOME PERIPHERAL AREAS ARE SHOWN IN THE SHALLOW AQUIFER MAP.
AREAS SHOWING NO GROUND WATER CONTOURS ON EITHER SHALLOW OR DEEP AQUIFER MAPS CONSTITUTE AREAS WHICH ARE OUTSIDE OF LIMITS OF GROUND WATER BASINS OR PRINCIPAL AQUIFER OR FOR WHICH THERE IS NO DATA
REVISIONS
MARK DATE DESCRIPTION
JAN. 1960 GENERAL (ON BASE)
SEPT. 1960 GENERAL (ON BASE)
DEC 1961 -70 & -80 GROUND WATER CONTOURS REALIGNED.
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER CONTOURS
DEEP AQUIFER
APRIL 1960
BASE MAP M.K.I.
DRAWN J.E.B. T.W.
APPROVED
PRESENTED C.J.R.
CHECKED CCG
CHIEF ENGINEER
SUBMITTED
RECOMMENDED
DIV. ENGR. WATER CONS.
ASST CHIEF ENGINEER
SCALE GRAPHIC
DATE OCT. 1960
NO. 2-H 146
SHEET 1 OF 1

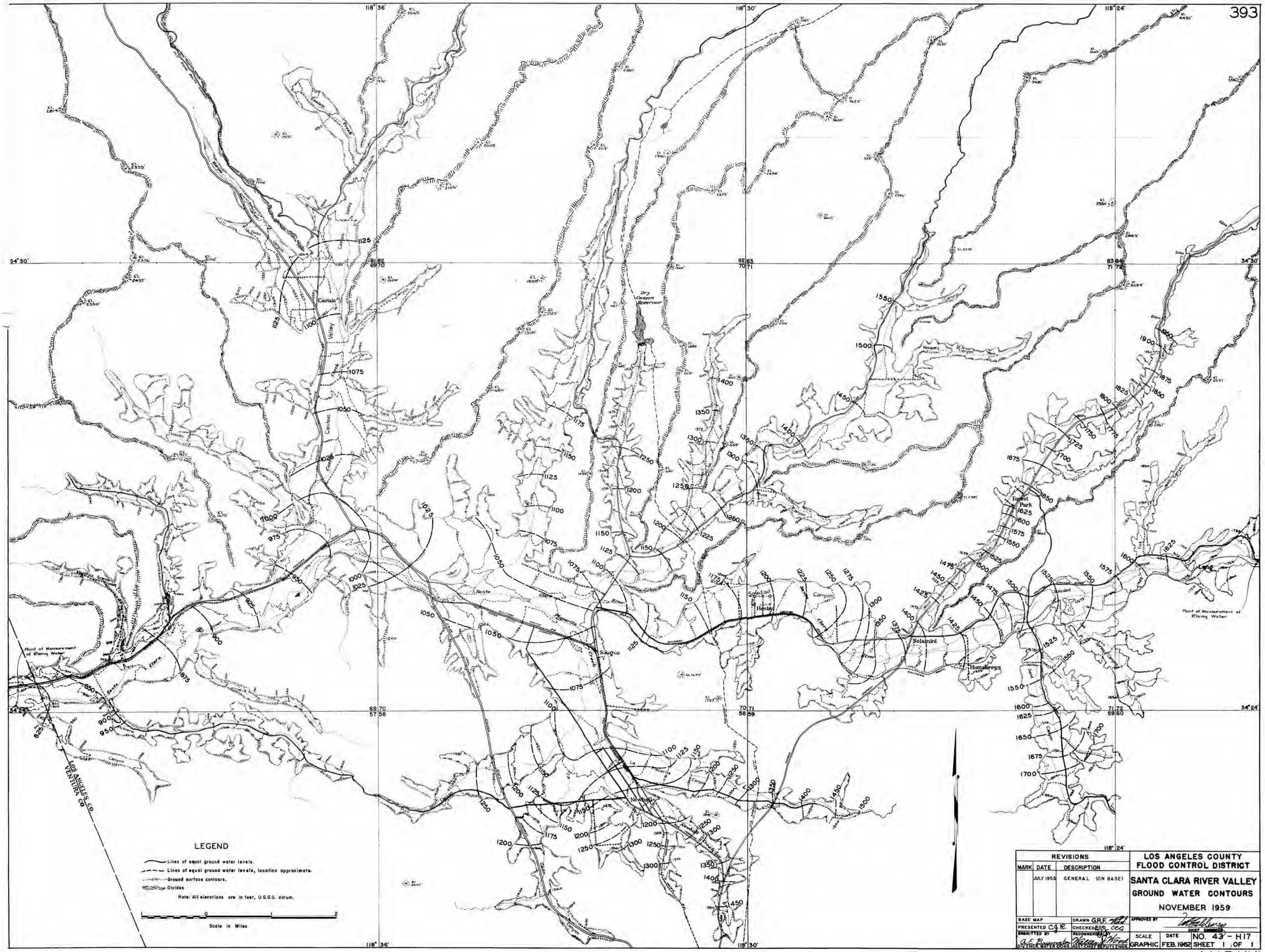
MAP XVIII


SANTA MONICA MOUNTAINS
LOS ANGELES
PACIFIC OCEAN
BALDWIN HILLS
LA MERCED HILLS
PUENTE HILLS
DOMINGUEZ HILLS
PALOS VERDES HILLS
SAN PEDRO BAY
ORANGE COUNTY
BEVERLY HILLS
Sawtelle
SANTA MONICA
Venice
CULVER CITY
INGLEWOOD
EL SEGUNDO
HAWTHORNE
MANHATTAN BEACH
Recharge Line
HERMOSA BEACH
REDONDO BEACH
TORRANCE
GARDENA
COMPTON
Athens
Watts
VERNON
HUNTINGTON PARK
MAYWOOD
SOUTH GATE
LYNWOOD
Belvedere Gardens
MONTEBELLO
WHITTIER NARROWS DAM
WHITTIER
ALHAMBRA
EL MONTE
Downey
Santa Fe Springs
Paramount
Norwalk
Bellflower
Artesia
LAKEWOOD
Wilmington
SAN PEDRO
LONG BEACH
SIGNAL HILL
ALAMITOS BAY
FREE LEVELS
PRESSURE LEVELS
34°06'
34°00'
33°54'
33°48'
118°36'
118°24'
118°18'
118°12'
118°06'
118°00'
SCALE IN MILES
LEGEND
LINES OF EQUAL PRESSURE ELEVATIONS–PRINCIPAL AQUIFER (INTERPOLATED BETWEEN WELLS)
SAME AS ABOVE–LOCATION APPROXIMATE
LINES OF EQUAL PRESSURE ELEVATIONS – BASAL SAN PEDRO IN LAKEWOOD AREA AND "400-FOOT GRAVELS" IN WEST COAST BASIN (INTERPOLATED BETWEEN WELLS)
SAME AS ABOVE – LOCATION APPROXIMATE
GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT
LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND WATER LEVELS TO PRESSURE LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R BULL. NO. 45)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
REACH OF RISING WATER
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE DEEP PRODUCING AQUIFERS. (SAN PEDRO AND/OR DEEP CORRELATIVE UNDIFFERENTIATED LOWER PLEISTOCENE)
WATER LEVELS IN THE RECENT AND UPPER PLEISTOCENE AND ALONG SOME PERIPHERAL AREAS ARE SHOWN IN THE SHALLOW AQUIFER MAP.
AREAS SHOWING NO GROUND WATER CONTOURS ON EITHER SHALLOW OR DEEP AQUIFER MAPS CONSTITUTE AREAS WHICH ARE OUTSIDE OF LIMITS OF GROUND WATER BASINS OR PRINCIPAL AQUIFER OR FOR WHICH THERE IS NO DATA
REVISIONS
MARK DATE DESCRIPTION
JAN. 1960 GENERAL (ON BASE)
SEPT. 1960 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER CONTOURS
DEEP AQUIFER
NOVEMBER 1960
BASE MAP M.K.I.
DRAWN
PRESENTED
CHECKED
SUBMITTED
RECOMMENDED
DIV. ENGR. WATER CONS.
ASST. CHIEF ENGINEER
APPROVED
CHIEF ENGINEER
SCALE GRAPHIC
DATE NOV. 1961
NO. 2-H150
SHEET 1 OF 1

MAP XIX

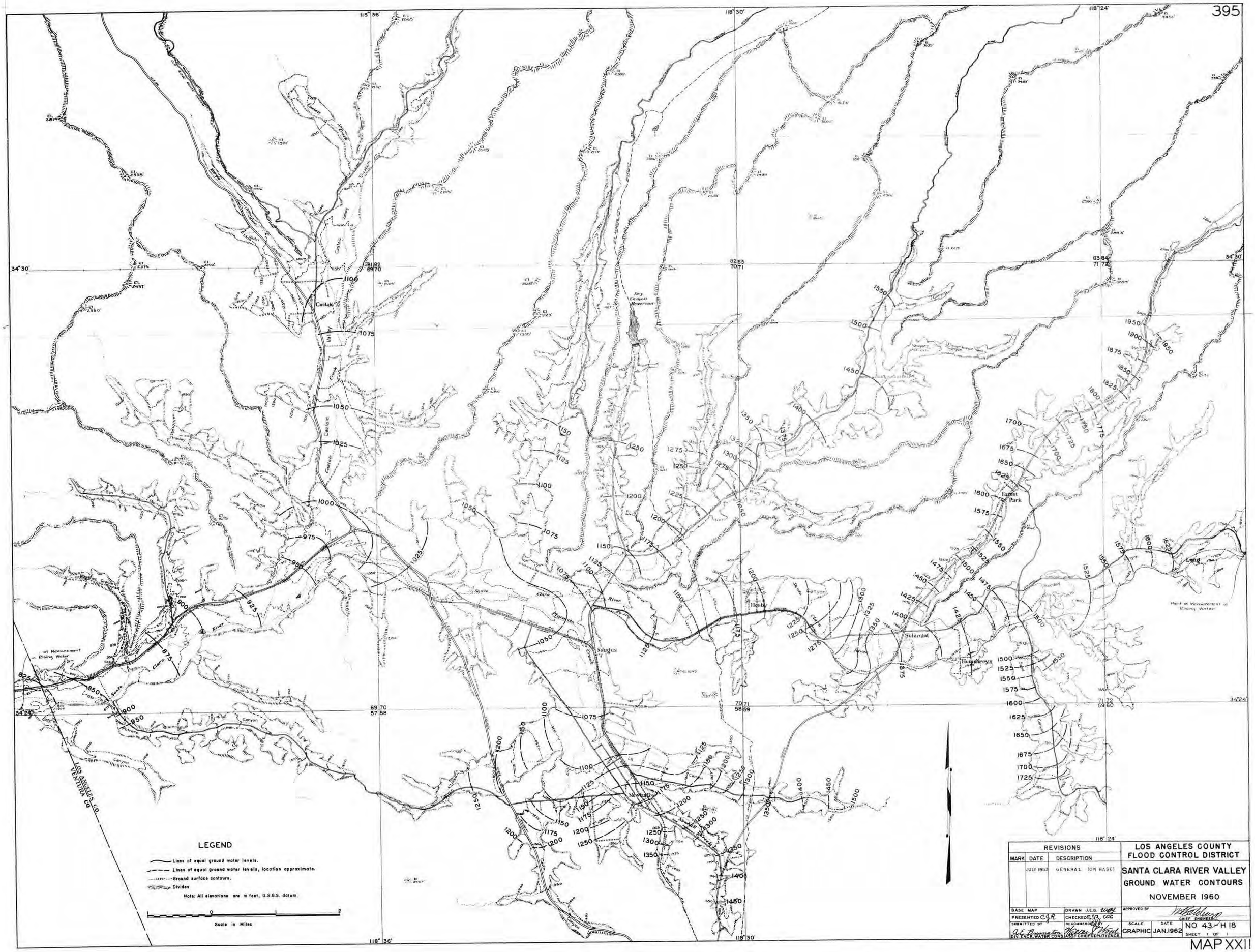

SANTA MONICA MOUNTAINS
LOS ANGELES
PACIFIC OCEAN
BALDWIN HILLS
LA MERCED HILLS
PUENTE HILLS
DOMINGUEZ HILLS
PALOS VERDES HILLS
SAN PEDRO BAY
ORANGE COUNTY
BEVERLY HILLS
Sawtelle
SANTA MONICA
Venice
CULVER CITY
INGLEWOOD
EL SEGUNDO
HAWTHORNE
MANHATTAN BEACH
Recharge Line
HERMOSA BEACH
REDONDO BEACH
TORRANCE
GARDENA
COMPTON
Athens
Watts
VERNON
HUNTINGTON PARK
MAYWOOD
SOUTH GATE
LYNWOOD
Belvedere Gardens
MONTEBELLO
WHITTIER NARROWS DAM
ALHAMBRA
EL MONTE
WHITTIER
Downey
Santa Fe Springs
Paramount
Bellflower
Norwalk
Artesia
LAKEWOOD
North Long Beach
LONG BEACH
Wilmington
SAN PEDRO
SIGNAL HILL
ALAMITOS BAY
FREE LEVELS
PRESSURE LEVELS
34°08'
34°00'
33°54'
33°48'
118°00'
118°36'
118°24'
118°18'
118°12'
118°06'
SCALE IN MILES
LEGEND
LINES OF EQUAL PRESSURE ELEVATIONS-PRINCIPAL AQUIFER (INTERPOLATED BETWEEN WELLS)
SAME AS ABOVE-LOCATION APPROXIMATE
LINES OF EQUAL PRESSURE ELEVATIONS - BASAL SAN PEDRO IN LAKEWOOD AREA AND "400-FOOT GRAVELS" IN WEST COAST BASIN (INTERPOLATED BETWEEN WELLS)
SAME AS ABOVE - LOCATION APPROXIMATE
GEOLOGIC (LITHOLOGIC AND/OR STRUCTURAL) RESTRICTIONS OR BARRIERS TO GROUND WATER MOVEMENT
LINE APPROXIMATELY MARKING TRANSITION FROM FREE GROUND WATER LEVELS TO PRESSURE LEVELS (CENTRAL COASTAL PLAIN 1933, D.W.R BULL. NO. 45)
GROUND SURFACE CONTOURS
SPREADING GROUNDS
CHANNEL; IMPERVIOUS LINING, SIDES AND BOTTOM
CHANNEL WITH BOTTOM OPEN; SIDES, IMPERVIOUS LINING
NATURAL CHANNEL
NOTE: CONTOURS SHOWN ARE REPRESENTATIVE OF WATER LEVELS IN WELLS TAPPING PRINCIPALLY THE DEEP PRODUCING AQUIFERS. (SAN PEDRO AND/OR DEEP CORRELATIVE UNDIFFERENTIATED LOWER PLEISTOCENE.)
WATER LEVELS IN THE RECENT AND UPPER PLEISTOCENE AND ALONG SOME PERIPHERAL AREAS ARE SHOWN IN THE SHALLOW AQUIFER MAP.
AREAS SHOWING NO GROUND WATER CONTOURS ON EITHER SHALLOW OR DEEP AQUIFER MAPS CONSTITUTE AREAS WHICH ARE OUTSIDE OF LIMITS OF GROUND WATER BASINS OR PRINCIPAL AQUIFER OR FOR WHICH THERE IS NO DATA
REVISIONS
MARK | DATE | DESCRIPTION
JAN. 1960 GENERAL (ON BASE)
SEPT. 1960 GENERAL (ON BASE)
OCT. 1961 GENERAL (ON BASE)
LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
COASTAL PLAIN
GROUND WATER CONTOURS
DEEP AQUIFER
APRIL 1961
BASE MAP M.K.I.
DRAWN J.E.B.
APPROVED
PRESENTED
CHECKED
CHIEF ENGINEER
SUBMITTED
RECOMMENDED
DIV. ENGR. WATER CONS.
ASST. CHIEF DEPUTY ENGR.
SCALE GRAPHIC
DATE JAN. 1962
NO. 2-H 153
SHEET 1 OF 1

MAP XX



REVISIONS			LOS ANGELES COUNTY FLOOD CONTROL DISTRICT
MARK	DATE	DESCRIPTION	
	JULY 1953	GENERAL (ON BASE)	SANTA CLARA RIVER VALLEY GROUND WATER CONTOURS NOVEMBER 1959
BASE MAP		DRAWN G.R.F.	APPROVED BY
PRESENTED C.G.R.		CHECKED E.A.B. C.C.G.	CHIEF ENGR.
SUBMITTED BY J.E. Bermudez DIV. ENGR. WATER CONS.		RECOMMENDED BY Vegan Ward ASST. CHIEF DEPUTY ENGR.	SCALE GRAPHIC DATE FEB. 1962 NO. 43 - H17 SHEET 1 OF 1

MAP XXI



118°36'
118°30'
118°24'
34°30'
34°24'
Castaic
Valley
Dry Canyon Reservoir
Forest Park
Saugus
Solamint
Humphreys
Newhall
Point of Measurement of Rising Water
LOS ANGELES CO.
VENTURA CO.
LEGEND
Lines of equal ground water levels.
Lines of equal ground water levels, location approximate.
Ground surface contours.
Divides
Note: All elevations are in feet, U.S.G.S. datum.
Scale in Miles
REVISIONS
MARK
DATE
DESCRIPTION
JULY 1953
GENERAL (ON BASE)
LOS ANGELES COUNTY
FLOOD CONTROL DISTRICT
SANTA CLARA RIVER VALLEY
GROUND WATER CONTOURS
NOVEMBER 1960
BASE MAP
PRESENTED C.J.R.
SUBMITTED BY
DIV. ENGR. WATER CONS.
DRAWN J.E.B.
CHECKED E.J.B. CCG
RECOMMENDED BY
ASST. CHIEF DEPUTY ENGR.
APPROVED BY
CHIEF ENGINEER
SCALE
GRAPHIC
DATE
JAN. 1962
NO 43-H 18
SHEET 1 OF 1

MAP XXII

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
SOUTHERN DISTRICT

ANTELOPE VALLEY AREA

LINES OF EQUAL ELEVATION OF GROUND WATER FALL 1959

SCALE OF MILES
0 1 2 3 4 5

LEGEND

- GROUND WATER BASIN BOUNDARY
- 2300 — SURFACE CONTOUR — U.S.G.S. DATUM
- 2400 — LINE OF EQUAL ELEVATION OF GROUND WATER
- A LANCASTER BASIN
- B NEENACH BASIN
- C BUTTES BASIN
- D ROCK CREEK BASIN

2-F284
MAP XXIII

STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES
SOUTHERN DISTRICT

ANTELOPE VALLEY AREA

LINES OF EQUAL ELEVATION OF GROUND WATER FALL 1960

SCALE OF MILES 0 1 2 3 4 5

LEGEND

- GROUND WATER BASIN BOUNDARY
- 2300 SURFACE CONTOUR—U.S.G.S. DATUM
- 2400 LINE OF EQUAL ELEVATION OF GROUND WATER
- A LANCASTER BASIN
- B NEENACH BASIN
- C BUTTES BASIN
- D ROCK CREEK BASIN

Emily B. Laverty